

Report 1

Symplectic schemes of seven-step fifth order

Method 1

$c_1 = 1.522544149080647235640781458666891381061760631015874781731$
 $c_2 = -1.150010700553243594119027302952718598189780673696655369871$
 $c_3 = -0.009876084266114438498529768765065346097251248208454684804$
 $c_4 = 1.198008011914509661710866910263174263755659332332412789708$
 $c_5 = -1.394847858465048049419891821681861461362412987174932870659$
 $c_6 = 0.470166264179614789929441238366603947821541261964948172951$
 $c_7 = 0.364016218109634394756359286102975813010483683766807380738$
 $d_1 = -0.027607657710205560804321446404843820662377896807611582501$
 $d_2 = 1.180685100965716251094422570181827185392663907605385880333$
 $d_3 = -1.224571627390387992378642845331111105790896087341655174924$
 $d_4 = 0.022912000561508443072055829572471577336667385438265485123$
 $d_5 = 0.434430027578441974661662310821854220891495754256478989367$
 $d_6 = 0.482553023343572868925519105636225591092524345164272076411$
 $d_7 = 0.131599132651354015429304475523576351739922591684864280791$

Method 2 - (Minimum error)

$c_1 = 0.112569584468347104973189684884327785393840239333314075493$
 $c_2 = 0.923805029000837468447500070054064432491178527428114178991$
 $c_3 = -1.362064898669775624786044007840908597402026042205084284026$
 $c_4 = 0.980926531879316517259793318227431991923428491844523669724$
 $c_5 = 0.400962967485371350147918025877657753577504227492190779513$
 $c_6 = 0.345821780864741783378055242038676806930765132085822482512$
 $c_7 = -0.402020995028838599420412333241250172914690575978880873429$
 $d_1 = 0.36953388878114957185081450061701658106775743968995046842$
 $d_2 = -0.032120004263046859169923904393901683486678946201463277409$
 $d_3 = -0.011978701020553903586622444048386301410473649207894475166$
 $d_4 = 0.51263817465269673604202785657395553607442158325539698102$
 $d_5 = -0.334948298035883491345320878224434762455516821029015086331$
 $d_6 = 0.021856594741098449005512783774683495267598355789295971623$
 $d_7 = 0.47501834514453949720351208570106713494289203770372938037$

Method 3

$c_1 = 0.772566942152969936684523641263259795253422649700185474481$
 $c_2 = -0.115030140392932335661798575592950841066029863156248072953$
 $c_3 = -0.005272900515676956170275541206340609336904921836164974495$
 $c_4 = 0.118145106916113912595170058543027098105711439442041282585$
 $c_5 = -0.614357026549217863465140013387074040768694906678646977685$
 $c_6 = 0.474756419912393574092539922233644166009888653238781272836$
 $c_7 = 0.369191598476349731924980508146434431802606949290051783799$
 $d_1 = -0.97700796497045207022164390371828209959674109853282867528$
 $d_2 = 2.589319492215208242817120196549934145400760326448400474658$
 $d_3 = -2.589138181426398632041580670603613705285706616173452976058$
 $d_4 = 0.94098539454707978977790414957828240952680495759130680271$
 $d_5 = 0.378820564878825767688302719492333913674146940379761573464$

$d_6 = 0.541852660039281234581633095392241711218228147305566283065$
 $d_7 = 0.115168034716455667398378147929557793636631804813422577617$

Method 4

$c_1 = 0.236028142095006107022617389399036036289214942524954280762$
 $c_2 = -0.419927529628140859055248758519256655081227453740141679918$
 $c_3 = 0.398023740649733379916689197046960506558749157001677571336$
 $c_4 = -0.057257198615542327766256827033773482105163803079083981965$
 $c_5 = 1.344468239324044127064871983170404560773941388383205687197$
 $c_6 = -0.855606343079864881082278272925079079152587785340840280108$
 $c_7 = 0.354270949254764453899605288861708112717073554250228479406$
 $d_1 = 1.123097424493649050502122281588952859910277182787774680255$
 $d_2 = 0.007540919728969203019831067733741187315695518639540774628$
 $d_3 = -1.251219199673265872190356450937184633663242468992103371979$
 $d_4 = 0.53997764001113373724737833443241253082497767594227770106$
 $d_5 = -0.002111601986259534289432029393056904018702111183251476651$
 $d_6 = 0.451712671004290139755103226813679896721415270688328468321$
 $d_7 = 0.131002146421483275955353569761455062909578932117433079426$

Method 5

$c_1 = 0.62821369991275061698107078559560371580612728055714458339$
 $c_2 = -0.012577350307926874285340822033834116329468648512323681001$
 $c_3 = -0.239760321307604710553809024216812565398853847867145575626$
 $c_4 = 0.175661938739788856642619399648722670852620429492748978915$
 $c_5 = 0.053520325822067161474574505544707326271456404350855077084$
 $c_6 = -0.349987652308152326012927738866842781327593730204319076638$
 $c_7 = 0.744929359449077275753812894328455750125712112183039678887$
 $d_1 = -0.598646316735340583465861808078841902666590109747717976505$
 $d_2 = 1.763543902408156630015474977307921816464309567573255978381$
 $d_3 = -1.788756714258313969127932655513724134992203224160603873154$
 $d_4 = 2.02744328916755151607830407085305289544140928069472858119$
 $d_5 = -1.858675755417169823262955617585489900935325519908432076388$
 $d_6 = 1.323574505814740214891785238967300371382357664034749172061$
 $d_7 = 0.131517089020376014871185794049780855306042341514020076937$

Method 6

$c_1 = 0.185648178554621718968245309306341962532446140244963678046$
 $c_2 = 0.17771230550629497084854152644687766410885110671576707335$
 $c_3 = -0.190548646846683113641883535286814708296793764970141884805$
 $c_4 = 0.476156201945323023372225832571662307954395196018146779125$
 $c_5 = -0.034376286343203963872386218583217516295103502226402485127$
 $c_6 = -0.009435596343029812816998704955626229385206250446721478841$
 $c_7 = 0.394843843526677177142255790500776519381411074664388282912$
 $d_1 = -0.760881803218142557669000649171404051143466613107223278738$
 $d_2 = 0.023282243335820354478426816560762105041600533913538184519$
 $d_3 = 1.115186836418099007224401065912122626931573992032548580152$
 $d_4 = 0.774858837009940900949165099894800058240831620928720075791$
 $d_5 = -1.473292536872539252496955111467797358584954494746741574214$
 $d_6 = 1.210991689454646104062404761020853082581075905287173673586$
 $d_7 = 0.109854733872175443451558017250663536933339055691984269242$

Method 7

$c_1 = 0.157762897725930697917532845268493185145171597347774675413$
 $c_2 = 0.467438995915168927591319039089291173788561271507678679226$
 $c_3 = -0.275957335155819239377712387327357043281525599655878376024$
 $c_4 = 0.361045461966483627494012220630290681520002028199229971522$
 $c_5 = -0.362532672640351934138235919380803829139116247420565987306$
 $c_6 = 0.653026726385640888720942645332499802510670753075913075756$
 $c_7 = -0.000784074197052968207858443612413970543763803054151878333$
 $d_1 = 0.384787429156706730527801924229129496190015613933562579227$
 $d_2 = 0.537152555989684389515918151892791320029762528758246987424$
 $d_3 = -2.755164293858447249410349546541552899492086856850152184821$
 $d_4 = 0.002469109921201865334255508609017815221053382749564177903$
 $d_5 = 2.706690571758922709627206746266887732443142449453085177863$
 $d_6 = -1.78271827185360917346059742414586082937973577902984717376$
 $d_7 = 1.906782898885540727865764639689587364987848660985540373515$

Method 8

$c_1 = 1.16050551817897566264269225322480911141904338793704688067$
 $c_2 = -0.709124543709790666769667094015570950677737960664883273214$
 $c_3 = -0.189687270732951460221166003273924563048058586999315282875$
 $c_4 = 1.09174083297432246489930147992186116965210894555796907296$
 $c_5 = 0.000928311665870882934658385848276676443540903647363973264$
 $c_6 = -1.167712061177859451663229381115079998753719683927936573621$
 $c_7 = 0.813349212801432568177410359409628554964822994449755183035$
 $d_1 = -0.022456133653776644572553453559932595831557433194062077114$
 $d_2 = 0.989761404215707300841322885301358595829195365498255582873$
 $d_3 = -1.357957847726094393907834293462024990262546895008603476992$
 $d_4 = 3.051107238456484652738404388698450795750020396311231874403$
 $d_5 = -3.0438835880661828399110716490505549071209020527193754783$
 $d_6 = 1.175030304846146899769758107069368137101747010296650576776$
 $d_7 = 0.208398621927715025041974015003334964534043608815902980366$

Method 9

$c_1 = 1.213914939388244969567962755073543888782990425789199378109$
 $c_2 = -1.127331425930025332716021180910683185404909059733144671911$
 $c_3 = 0.582561877180994894889302024991725428904299458587788484878$
 $c_4 = 0.348908867594186153239653799389943335359772638735485477055$
 $c_5 = -0.887102835916419031973868325897413910782480185258707484821$
 $c_6 = 1.073029365869715639984127452901653133876492604605954982065$
 $c_7 = -0.20398078818669729299115652554876869073616588272657617773$
 $d_1 = 0.651888710034098187047787811919789669650881601351799875547$
 $d_2 = -0.269008276449660237373847515896702258484862960195251780874$
 $d_3 = 0.463238981857106064331577027853375359380985635680449280605$
 $d_4 = -0.848051970479030495887511438383909612886728467052519276312$
 $d_5 = 0.668818825899395649123720827755398622755031900852149582191$
 $d_6 = -0.663560420539994206138962453236156431048689392168798374974$
 $d_7 = 0.996674149678085038897235739988204650633381681532170674231$

Method 10

$c_1 = 0.658518050591331131247313004839795555926191953346042048785$
 $c_2 = -0.000700151532114773994077437188916441251325949637444361365$
 $c_3 = -0.500388623336083072621237066670198340346646240009462554454$
 $c_4 = 0.492572068884891932949960653050960938955708423989237049954$
 $c_5 = 0.3505889178392414276447553967850181160395766413786509493$
 $c_6 = -0.387696330445323860437557810367199474341161846468161356133$
 $c_7 = 0.387106067998057215210843259550539645017657017401138048912$
 $d_1 = 4.560726969561104606339045124740333759666152312277843339481$
 $d_2 = -4.590538176850791444824806319759021160931823672702005150908$
 $d_3 = 0.382165592542319302419710901927517767721275355648494956487$
 $d_4 = 0.547591916754810452778161309468243462689051841797856746676$
 $d_5 = 3.148709062358186680560822757114894171206210193004255253503$
 $d_6 = 0.004119417638191301840664574765493680247492680942499646218$
 $d_7 = -3.052774782003820899113598348257461680598358710968945044803$

Method 11

$c_1 = 0.451565072043660566153676907844402592771626635655507770292$
 $c_2 = -0.002625517726040550321216631834885218246405348766761075151$
 $c_3 = -0.288746249091012820496917716870631916494703745953472282764$
 $c_4 = 0.47037200434229013204465960038610529323247585182528027131$
 $c_5 = 0.370446676335932732131165391352841937409097523478947866897$
 $c_6 = 0.193479673253384564857895760894223168079286129168673081564$
 $c_7 = -0.194491659158214624369263311772055856751377045408175777953$
 $d_1 = 1.904232780508446387453331227588459749189981567288711078626$
 $d_2 = -1.939586366441924605272004546461976654374494297244994979453$
 $d_3 = 0.396076651023183028911297491501266854424297456758842183643$
 $d_4 = 0.513386810409069562674038105483497027676454866781561477738$
 $d_5 = -2.967739460604547365263858264164298986767637120327550576246$
 $d_6 = 0.004177409528669315739141675118047253200201751434088675616$
 $d_7 = 3.08945217557710367575805431093500475665119577530934207944$

Method 12

$c_1 = 0.519827930040912444352481468838180085887510852172895980906$
 $c_2 = 0.391127454478455426289053037158213301818835755808840189773$
 $c_3 = 0.00568089964418506571231673915090958121565695450919107903$
 $c_4 = -0.404738796316473750623431836433431969220344757643843376944$
 $c_5 = -0.164675388520224123807252493051875127138838155917357480877$
 $c_6 = -0.113672264159751693186596663880946113138065965011413175987$
 $c_7 = 0.766450164832896631263429748218950240575245316081686678097$
 $d_1 = -0.874753175705979844562626977511618591828550730087865280621$
 $d_2 = 2.706672984826799656726163541782250596628445954479487780688$
 $d_3 = -2.69059284223697945597539196389764076414379771827614657553$
 $d_4 = 1.92395512249739801797744163079565160346582238486472827312$
 $d_5 = -1.365244655197930069276711827634214354898455684116164974806$
 $d_6 = 1.116092677205581038215004881753427605938533856012539172229$
 $d_7 = 0.183869888611110656896120714712143904838001937123421688214$

Method 13

$c_1 = 0.410792403030473200902160071484169381460574632077992780148$
 $c_2 = -0.083974361757121582517396974652681043279854500298017981386$

$c_3 = 1.333397639082588717390737853644245726003991904259342783525$
 $c_4 = -0.31698203756627969930179827040481531595852933305128577744$
 $c_5 = 0.374983982862989001186733679741933355151262342338756873284$
 $c_6 = -0.753016552800424903519209812245563563971971464784334280157$
 $c_7 = 0.034798927147775265858773452432711460594526419457545578983$
 $d_1 = -0.522175215894487271206153037488142009180581770304286780548$
 $d_2 = 1.186836399295929973385029409832433995416595518449293784672$
 $d_3 = -1.050313642183783689772327931741505253000734959188693587485$
 $d_4 = 0.13579119709750998222055863825227734529005625880035047716$
 $d_5 = 0.815034886705722713617186649738855260752271982021439172777$
 $d_6 = -1.515571300718636336540797918350016114751065419642566173852$
 $d_7 = 1.950397675697744628296504189756096775473458389864463172848$

Method 14

$c_1 = 7.926714888654722182280984022832967546246464751931108978186$
 $c_2 = -7.828209008950990414791041563366391011808386420293773272434$
 $c_3 = 0.553674984678513674554533803446455684249412119715946677956$
 $c_4 = 0.379166810743287038912425052690522037383321727120050477404$
 $c_5 = -1.555746335641049840619764066342801409488303517897032978365$
 $c_6 = 6.629056350958162577006220943156557735219597844865127273546$
 $c_7 = -5.104657690442645217343358192417310581802106505441427074849$
 $d_1 = -0.000098458576731711244047978849669170276261243079572478025$
 $d_2 = 0.342996415697657093624632977133759613773541457968555783918$
 $d_3 = 0.501083510387527963678830280348361358035074491815738883153$
 $d_4 = -0.739315233906230912855085534538963116740515669448650075069$
 $d_5 = -0.003772637348990384315214766640691003818620267628890868044$
 $d_6 = 0.000313927107832139637548837316179708874312805288658182739$
 $d_7 = 0.89879247663893581147333618523102261015246842508416037641$

Method 15

$c_1 = 0.140128112175860754756489953772605112450952877200240677453$
 $c_2 = -0.007291839917944130575853250679217682251855635032843079237$
 $c_3 = 0.479582327595420095672887505319729867110886540761762371877$
 $c_4 = -0.133660285558930006152149695902116117092443887420679677814$
 $c_5 = -0.000613808212316503610684460885547337796997023560833476749$
 $c_6 = 0.084646596421829543894908250041297772118264359867743970236$
 $c_7 = 0.437208897496080246014401698333248385461192768184609176294$
 $d_1 = 1.019508630563447445677312028561312259992113966446499281014$
 $d_2 = -0.649125284823445925242181083343397399446966749546986769263$
 $d_3 = 1.024707633496486830514201323385939536711876882550164273173$
 $d_4 = -2.718229157232574801870867751342340083592956594586545872498$
 $d_5 = 2.829663581734943632489189073972695420765807603930302376132$
 $d_6 = -0.619218108223042687661417882645945679259215275654546970989$
 $d_7 = 0.112692704484185506093764291411735944829340166861113577834$

Method 16

$c_1 = 0.118572521476522937122059531227948653221545210262277484057$
 $c_2 = 0.756140470141399914548847501619644549002868106191399984979$
 $c_3 = -0.225324146725279464635014184773189093172309484734846779373$
 $c_4 = 0.394817044608132044194978758301330631977420337649054273684$

$c_5 = -2.463506131982482104138451169392669968954262518523258185275$
 $c_6 = 2.878456011983122762187093132272642485859718034983560588404$
 $c_7 = -0.459155769501416089279513569255707257934979685828187470092$
 $d_1 = 0.340983469249489555609664633781051068446390812319012783381$
 $d_2 = -0.067588961152125101838944097386785649089016367203844879535$
 $d_3 = 0.565236482906551900676834901933995258750887114687002074777$
 $d_4 = -0.410296628159458173873387895510877738244233470798333379858$
 $d_5 = -0.000439309162073134354791724458165795723870922231035690575$
 $d_6 = 0.015979552232667569924888458669349078722037870953039278956$
 $d_7 = 0.556125394084947383855735722971433777137804962274159778465$

Method 17

$c_1 = 7.08870279306854376201290871747556661717173109277186537117$
 $c_2 = -6.76592598760202267529700062862544523955683287822155347204$
 $c_3 = 0.894651927112587867520554043547211051029092942050894377934$
 $c_4 = -1.196025787739602171888331600437610149055203262951995678042$
 $c_5 = 0.520346228319313550390883678379489047943703970445753177122$
 $c_6 = -0.556378062863053379981997990234257747844047250592054383162$
 $c_7 = 1.014628889704233047242983779895046420311555386497090584536$
 $d_1 = 5.119384611848136710121517387523359212790431669964356 * 10^{-6}$
 $d_2 = 0.787244381466663252174794475244116620296232154532840675323$
 $d_3 = -0.124949080670702213253723188591050177279501075327042276973$
 $d_4 = -0.530875684177712449182639744306763549476804918333245274799$
 $d_5 = -0.080149328553288889235557783010745003448370541993872181987$
 $d_6 = 0.488814558282831471430049145478051550058380845229975581365$
 $d_7 = 0.459910034267596979930366973669003036490850745459673481383$

Method 18

$c_1 = 0.1561972283647089531906583301704042054174680789849595745$
 $c_2 = -0.269478031692582008611911600433631294201932250835158367948$
 $c_3 = -0.000307147523156044133777415427747397584620800018294875071$
 $c_4 = 0.247834194752640053225697048013573175717341075548805978737$
 $c_5 = 0.846782328791319144576279024012812411274669550406629571619$
 $c_6 = -0.303574443814414994916598899739271228697662515410723980024$
 $c_7 = 0.322545871121484896669653513403860128074736861323782068151$
 $d_1 = 1.123532705524920262839077124624432650074086293964546581944$
 $d_2 = -2.600740203413171620943986882723053387210896182239448475756$
 $d_3 = 2.616309741806694514797556154725665390387855923562365577059$
 $d_4 = -0.71760208558223181771590053509705516685017344497779458261$
 $d_5 = -0.022337917398985773192866760984648891895102116317251979056$
 $d_6 = 0.482144168828602065830097020602809071700311118741130776314$
 $d_7 = 0.118693590234172368386023878851850333793918407266452081397$

Method 19

$c_1 = 0.135986820860236944778745605134055485742735923216051276677$
 $c_2 = -0.242736558973466884880817053652262195853600184490077571314$
 $c_3 = 2.889299049943851755697588253291923187210434497207998475675$
 $c_4 = 0.022374359584696801032247208570560154312521284296441473276$
 $c_5 = -1.810638380744174969716690855834057657049050487375065 * 10^{-6}$
 $c_6 = -2.109255767239238628695528448929115277458573632335697078104$

$c_7 = 0.304333906462300756242734152275694480104139161155770778593$
 $d_1 = 0.481945891897042431292633510172211696597647768485427673688$
 $d_2 = -0.054403221054522651320567854364071246625794735457571581077$
 $d_3 = -0.068994793152332334848416507238308307862094623575235274324$
 $d_4 = 6.463841034581074010315920991021729593230027537743016276626$
 $d_5 = -6.397375087708634038968243113087764150533178902674079178269$
 $d_6 = 0.462630251069712132097242008772365992400111369471069577689$
 $d_7 = 0.112355924367660451431430964723836422793281586007372578636$

Method 20

$c_1 = 0.558838360439386455861580902573864206662109298436276478983$
 $c_2 = -0.000512684252561262728774734634172159503027912514280680189$
 $c_3 = 0.016768591182339036068248086479961739561353922577993982202$
 $c_4 = -0.413592629994495043455243889222234394842015275073902176164$
 $c_5 = 0.57179639259922040106911890691037692875774255559519337841$
 $c_6 = -0.074328370443702792291661757740074307576333583654938082625$
 $c_7 = 0.341030340469813205476732485632277986940170994633657072484$
 $d_1 = 2.3138571029874738893322985682115248146274149705527584775$
 $d_2 = -2.751839214177823767139252555919874542711876667886677978564$
 $d_3 = 0.394198823476744699966067739107488575616278444146703779305$
 $d_4 = 0.395151765170903709916007405669078151506574601749667874321$
 $d_5 = -0.204453452472492425715402599546501161922428710098835477871$
 $d_6 = 0.734035631943848052601528896452398506187004880656600379715$
 $d_7 = 0.119049343071345841038752546025885656697032480879782776523$

Method 21

$c_1 = 1.052896589729202334985287081040403629522728696359046477634$
 $c_2 = 0.064725064140824684043340624402347283356956261901995772746$
 $c_3 = -1.046722140097932387630891299370931152804689400792229279533$
 $c_4 = 1.430377108195329332886041151844034619729313595114636679798$
 $c_5 = 0.23629068907259306857994626135811475680284719405401496991$
 $c_6 = -1.868607639538242604846987288492406984301243969384688775837$
 $c_7 = 1.131040328498225571983263469218437847694087622747224076924$
 $d_1 = 0.818494996743424610213372264241184195298601396333413381148$
 $d_2 = -0.80172619541517251044779382958054468970007382614660397018$
 $d_3 = 0.701309877987306424779218729020458061891698712033805074201$
 $d_4 = -0.212378248753969479054585653679335246660678490978796276622$
 $d_5 = 0.101334413304872096866295521065989067526529233781017380201$
 $d_6 = -0.207164510518138581766708234306589553433953474016321684633$
 $d_7 = 0.600129666651677439410201203238838165077876448993486083525$

Method 22

$c_1 = 0.177729212195930604530305679681252020611423698459422180199$
 $c_2 = 0.533226779792382408780771323229937235307568639141040880149$
 $c_3 = -0.430646020149476543156683725586699059309281571231930877191$
 $c_4 = -0.000345784645363253520582217669947916241276329941062980461$
 $c_5 = 0.744125380505021623509399345705643284349706465820386774873$
 $c_6 = -0.735317052790329390284284482447020593113592287764970979679$
 $c_7 = 0.711227485091834550141074077086835028395451385517114983768$
 $d_1 = 0.456279756548618794484666955140246135414924857478081068057$

$d_2 = 0.605710094187830308788211557040031597176829075434400975769$
 $d_3 = -3.064014701921827054902171026355048340668617919187815775874$
 $d_4 = 2.998510262545449806691961825484687424179376646536956979625$
 $d_5 = 0.54285967947476296866936916601393958225025134518867787468$
 $d_6 = 0.012542990821823734586669711596065319637789720938343172684$
 $d_7 = -0.551888081656658558318708188919921717990553726388644375354$

Method 23

$c_1 = 0.319366430530800842836584954256438884276275743056569179302$
 $c_2 = 0.895247411314476928434312863323853549851348807400898286978$
 $c_3 = -1.209310188891793152176451718030995703407538879950566076072$
 $c_4 = 0.593795069625513614776012172898331199083702921579655780375$
 $c_5 = 3.274786028864368624391496673700837169431179104801799181181$
 $c_6 = -3.909711359098536419379855592134242079812802456104989083217$
 $c_7 = 1.035826607655169561117900645985776980577834759216632684754$
 $d_1 = 0.784266492309066711360831228182087784518652723232153975544$
 $d_2 = -0.129731366306140766235174094926023361351897839707628781516$
 $d_3 = -0.528070317409505040448254635347385746718044188128847580923$
 $d_4 = -0.068630139949552307914785367680767625069619420579758974498$
 $d_5 = 0.000067869949396923620691044981665559588228152534189572989$
 $d_6 = 0.474344184887265778756441433541452861724602513536361085497$
 $d_7 = 0.467753276519468700860250391248970527308078059113530672329$

From the alternation $c_i \longleftrightarrow d_{8-i}$, $i = 1, 2, \dots, 7$ other twenty three methods was resulted

Report 2

Error function of seven-step fifth-order method

$$FunError57 = \sqrt{eq[1]^2 + eq[2]^2 + \dots + eq[62]^2}, \text{ where } eq[1], eq[2], \dots, eq[62]$$

$$eq[1] = -\frac{1}{720} + \frac{1}{120} (c_3 d_3^5 + c_3 d_4^5 + c_4 d_4^5 + c_3 d_5^5 + c_4 d_5^5 + c_5 d_5^5 + c_3 d_6^5 + c_4 d_6^5 + c_5 d_6^5 + c_6 d_6^5 + c_3 d_7^5 + c_4 d_7^5 + c_5 d_7^5 + c_6 d_7^5 + c_7 d_7^5 + c_2 (d_2^5 + d_3^5 + d_4^5 + d_5^5 + d_6^5 + d_7^5)) + c_1 (d_1^5 + d_2^5 + d_3^5 + d_4^5 + d_5^5 + d_6^5 + d_7^5);$$

$$eq[2] = -\frac{1}{720} + \frac{1}{120} (c_2^5 d_1 + c_4^5 d_1 + c_5^5 d_1 + c_6^5 d_1 + c_7^5 d_1 + c_4^5 d_2 + c_5^5 d_2 + c_6^5 d_2 + c_7^5 d_2 + c_3^5 (d_1 + d_2) + c_4^5 d_3 + c_5^5 d_3 + c_6^5 d_3 + c_7^5 d_3 + c_5^5 d_4 + c_6^5 d_4 + c_7^5 d_4 + c_6^5 d_5 + c_7^5 d_5 + c_7^5 d_6);$$

$$eq[3] = -\frac{1}{720} + \frac{1}{48} (c_3^2 d_3^4 + c_3^2 d_4^4 + c_4^2 d_4^4 + c_3^2 d_5^4 + c_4^2 d_5^4 + c_5^2 d_5^4 + c_3^2 d_6^4 + c_4^2 d_6^4 + c_5^2 d_6^4 + c_6^2 d_6^4 + c_3^2 d_7^4 + c_4^2 d_7^4 + c_5^2 d_7^4 + c_6^2 d_7^4 + c_7^2 d_7^4 + c_2^2 (d_2^4 + d_3^4 + d_4^4 + d_5^4 + d_6^4 + d_7^4)) + c_1^2 (d_1^4 + d_2^4 + d_3^4 + d_4^4 + d_5^4 + d_6^4 + d_7^4);$$

$$eq[4] = -\frac{1}{720} + \frac{1}{48} (c_2^4 d_1^2 + c_4^4 d_1^2 + c_5^4 d_1^2 + c_6^4 d_1^2 + c_7^4 d_1^2 + c_4^4 d_2^2 + c_5^4 d_2^2 + c_6^4 d_2^2 + c_7^4 d_2^2 + c_3^4 (d_1^2 + d_2^2) + c_4^4 d_3^2 + c_5^4 d_3^2 + c_6^4 d_3^2 + c_7^4 d_3^2 + c_5^4 d_4^2 + c_6^4 d_4^2 + c_7^4 d_4^2 + c_6^4 d_5^2 + c_7^4 d_5^2 + c_7^4 d_6^2);$$

$$eq[5] = -\frac{1}{720} + \frac{1}{36} (c_3^3 d_3^3 + c_3^3 d_4^3 + c_4^3 d_4^3 + c_3^3 d_5^3 + c_4^3 d_5^3 + c_5^3 d_5^3 + c_3^3 d_6^3 + c_4^3 d_6^3 + c_5^3 d_6^3 + c_6^3 d_6^3 + c_3^3 d_7^3 + c_4^3 d_7^3 + c_5^3 d_7^3 + c_6^3 d_7^3 + c_7^3 d_7^3 + c_2^3 (d_2^3 + d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3)) + c_1^3 (d_1^3 + d_2^3 + d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3);$$

$$eq[6] = -\frac{1}{720} + \frac{1}{36} (c_2^3 d_1^3 + c_4^3 d_1^3 + c_5^3 d_1^3 + c_6^3 d_1^3 + c_7^3 d_1^3 + c_4^3 d_2^3 + c_5^3 d_2^3 + c_6^3 d_2^3 + c_7^3 d_2^3 + c_3^3 (d_1^3 + d_2^3) + c_4^3 d_3^3 + c_5^3 d_3^3 + c_6^3 d_3^3 + c_7^3 d_3^3 + c_5^3 d_4^3 + c_6^3 d_4^3 + c_7^3 d_4^3 + c_6^3 d_5^3 + c_7^3 d_5^3 + c_7^3 d_6^3);$$

$$eq[7] = -\frac{1}{720} + \frac{1}{48} (c_3^4 d_3^2 + c_3^4 d_4^2 + c_4^4 d_4^2 + c_3^4 d_5^2 + c_4^4 d_5^2 + c_5^4 d_5^2 + c_3^4 d_6^2 + c_4^4 d_6^2 + c_5^4 d_6^2 + c_6^4 d_6^2 + c_3^4 d_7^2 + c_4^4 d_7^2 + c_5^4 d_7^2 + c_6^4 d_7^2 + c_7^4 d_7^2 + c_2^4 (d_2^2 + d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2)) + c_1^4 (d_1^2 + d_2^2 + d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2);$$

$$eq[8] = -\frac{1}{720} + \frac{1}{48} (c_2^2 d_1^4 + c_4^2 d_1^4 + c_5^2 d_1^4 + c_6^2 d_1^4 + c_7^2 d_1^4 + c_4^2 d_2^4 + c_5^2 d_2^4 + c_6^2 d_2^4 + c_7^2 d_2^4 + c_3^2 (d_1^4 + d_2^4) + c_4^2 d_3^4 + c_5^2 d_3^4 + c_6^2 d_3^4 + c_7^2 d_3^4 + c_5^2 d_4^4 + c_6^2 d_4^4 + c_7^2 d_4^4 + c_6^2 d_5^4 + c_7^2 d_5^4 + c_7^2 d_6^4);$$

$$eq[9] = -\frac{1}{720} + \frac{1}{120} (c_3^5 d_3 + c_3^5 d_4 + c_4^5 d_4 + c_3^5 d_5 + c_4^5 d_5 + c_5^5 d_5 + c_3^5 d_6 + c_4^5 d_6 + c_5^5 d_6 + c_6^5 d_6 + c_3^5 d_7 + c_4^5 d_7 + c_5^5 d_7 + c_6^5 d_7 + c_7^5 d_7 + c_2^5 (d_2 + d_3 + d_4 + d_5 + d_6 + d_7) + c_1^5 (d_1 + d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[10] = -\frac{1}{720} + \frac{1}{120} (c_2 d_1^5 + c_4 d_1^5 + c_5 d_1^5 + c_6 d_1^5 + c_7 d_1^5 + c_4 d_2^5 + c_5 d_2^5 + c_6 d_2^5 + c_7 d_2^5 + c_3 (d_1^5 + d_2^5) + c_4 d_3^5 + c_5 d_3^5 + c_6 d_3^5 + c_7 d_3^5 + c_5 d_4^5 + c_6 d_4^5 + c_7 d_4^5 + c_6 d_5^5 + c_7 d_5^5 + c_7 d_6^5);$$

$$eq[11] = -\frac{1}{720} + \frac{1}{24} (c_3 c_4^4 d_3 + c_3 c_5^4 d_3 + c_3 c_6^4 d_3 + c_3 c_7^4 d_3 + c_3 c_5^4 d_4 + c_4 c_5^4 d_4 +$$

$$c_3c_6^4d_4 + c_4c_6^4d_4 + c_3c_7^4d_4 + c_4c_7^4d_4 + c_3c_6^4d_5 + c_4c_6^4d_5 + c_5c_6^4d_5 + c_3c_7^4d_5 + c_4c_7^4d_5 + c_5c_7^4d_5 + c_3c_7^4d_6 + c_4c_7^4d_6 + c_5c_7^4d_6 + c_6c_7^4d_6 + c_1(c_2^4d_1 + c_4^4d_1 + c_5^4d_1 + c_6^4d_1 + c_7^4d_1 + c_4^4d_2 + c_5^4d_2 + c_6^4d_2 + c_7^4d_2 + c_3^4(d_1 + d_2) + c_4^4d_3 + c_5^4d_3 + c_6^4d_3 + c_7^4d_3 + c_5^4d_4 + c_6^4d_4 + c_7^4d_4 + c_6^4d_5 + c_7^4d_5 + c_7^4d_6) + c_2(c_3^4d_2 + c_5^4d_2 + c_6^4d_2 + c_7^4d_2 + c_5^4d_3 + c_6^4d_3 + c_7^4d_3 + c_4^4(d_2 + d_3) + c_5^4d_4 + c_6^4d_4 + c_7^4d_4 + c_6^4d_5 + c_7^4d_5 + c_7^4d_6);$$

$$eq[12] = -\frac{1}{720} + \frac{1}{24}(c_4d_1d_4^4 + c_4d_2d_4^4 + c_4d_3d_4^4 + c_4d_1d_5^4 + c_5d_1d_5^4 + c_4d_2d_5^4 + c_5d_2d_5^4 + c_4d_3d_5^4 + c_5d_3d_5^4 + c_5d_4d_5^4 + c_4d_1d_6^4 + c_5d_1d_6^4 + c_6d_1d_6^4 + c_4d_2d_6^4 + c_5d_2d_6^4 + c_6d_2d_6^4 + c_4d_3d_6^4 + c_5d_3d_6^4 + c_6d_3d_6^4 + c_5d_4d_6^4 + c_6d_4d_6^4 + c_6d_5d_6^4 + c_4d_1d_7^4 + c_5d_1d_7^4 + c_6d_1d_7^4 + c_7d_1d_7^4 + c_4d_2d_7^4 + c_5d_2d_7^4 + c_6d_2d_7^4 + c_7d_2d_7^4 + c_4d_3d_7^4 + c_5d_3d_7^4 + c_6d_3d_7^4 + c_7d_3d_7^4 + c_5d_4d_7^4 + c_6d_4d_7^4 + c_7d_4d_7^4 + c_6d_5d_7^4 + c_7d_5d_7^4 + c_7d_6d_7^4 + c_3(d_1 + d_2)(d_3^4 + d_4^4 + d_5^4 + d_6^4 + d_7^4) + c_2d_1(d_2^4 + d_3^4 + d_4^4 + d_5^4 + d_6^4 + d_7^4));$$

$$eq[13] = -\frac{1}{720} + \frac{1}{12}(c_3c_4^3d_3^2 + c_3c_5^3d_3^2 + c_3c_6^3d_3^2 + c_3c_7^3d_3^2 + c_3c_5^3d_4^2 + c_4c_5^3d_4^2 + c_3c_6^3d_4^2 + c_4c_6^3d_4^2 + c_3c_7^3d_4^2 + c_4c_7^3d_4^2 + c_3c_6^3d_5^2 + c_4c_6^3d_5^2 + c_5c_6^3d_5^2 + c_3c_7^3d_5^2 + c_4c_7^3d_5^2 + c_5c_7^3d_5^2 + c_3c_7^3d_6^2 + c_4c_7^3d_6^2 + c_5c_7^3d_6^2 + c_6c_7^3d_6^2 + c_1(c_2^3d_1^2 + c_4^3d_1^2 + c_5^3d_1^2 + c_6^3d_1^2 + c_7^3d_1^2 + c_4^3d_2^2 + c_5^3d_2^2 + c_6^3d_2^2 + c_7^3d_2^2 + c_3^3(d_1^2 + d_2^2) + c_4^3d_3^2 + c_5^3d_3^2 + c_6^3d_3^2 + c_7^3d_3^2 + c_5^3d_4^2 + c_6^3d_4^2 + c_7^3d_4^2 + c_6^3d_5^2 + c_7^3d_5^2 + c_7^3d_6^2) + c_2(c_3^3d_2^2 + c_5^3d_2^2 + c_6^3d_2^2 + c_7^3d_2^2 + c_5^3d_3^2 + c_6^3d_3^2 + c_7^3d_3^2 + c_4^3(d_2^2 + d_3^2) + c_5^3d_4^2 + c_6^3d_4^2 + c_7^3d_4^2 + c_6^3d_5^2 + c_7^3d_5^2 + c_7^3d_6^2));$$

$$eq[14] = -\frac{1}{720} + \frac{1}{12}(c_4^2d_1d_4^3 + c_4^2d_2d_4^3 + c_4^2d_3d_4^3 + c_4^2d_1d_5^3 + c_5^2d_1d_5^3 + c_4^2d_2d_5^3 + c_5^2d_2d_5^3 + c_4^2d_3d_5^3 + c_5^2d_4d_5^3 + c_4^2d_1d_6^3 + c_5^2d_1d_6^3 + c_6^2d_1d_6^3 + c_4^2d_2d_6^3 + c_5^2d_2d_6^3 + c_6^2d_2d_6^3 + c_4^2d_3d_6^3 + c_5^2d_3d_6^3 + c_6^2d_3d_6^3 + c_5^2d_4d_6^3 + c_6^2d_4d_6^3 + c_6^2d_5d_6^3 + c_4^2d_1d_7^3 + c_5^2d_1d_7^3 + c_6^2d_1d_7^3 + c_7^2d_1d_7^3 + c_4^2d_2d_7^3 + c_5^2d_2d_7^3 + c_6^2d_2d_7^3 + c_7^2d_2d_7^3 + c_4^2d_3d_7^3 + c_5^2d_3d_7^3 + c_6^2d_3d_7^3 + c_7^2d_3d_7^3 + c_5^2d_4d_7^3 + c_6^2d_4d_7^3 + c_7^2d_4d_7^3 + c_6^2d_5d_7^3 + c_7^2d_5d_7^3 + c_7^2d_6d_7^3 + c_3^2(d_1 + d_2)(d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3) + c_2^2d_1(d_2^3 + d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3));$$

$$eq[15] = -\frac{1}{720} + \frac{1}{12}(c_3c_4^2d_3^3 + c_3c_5^2d_3^3 + c_3c_6^2d_3^3 + c_3c_7^2d_3^3 + c_3c_5^2d_4^3 + c_4c_5^2d_4^3 + c_3c_6^2d_4^3 + c_4c_6^2d_4^3 + c_3c_7^2d_4^3 + c_4c_7^2d_4^3 + c_3c_6^2d_5^3 + c_4c_6^2d_5^3 + c_5c_6^2d_5^3 + c_3c_7^2d_5^3 + c_4c_7^2d_5^3 + c_5c_7^2d_5^3 + c_3c_7^2d_6^3 + c_4c_7^2d_6^3 + c_5c_7^2d_6^3 + c_6c_7^2d_6^3 + c_1(c_2^2d_1^3 + c_4^2d_1^3 + c_5^2d_1^3 + c_6^2d_1^3 + c_7^2d_1^3 + c_4^2d_2^3 + c_5^2d_2^3 + c_6^2d_2^3 + c_7^2d_2^3 + c_3^2(d_1^3 + d_2^3) + c_4^2d_3^3 + c_5^2d_3^3 + c_6^2d_3^3 + c_7^2d_3^3 + c_5^2d_4^3 + c_6^2d_4^3 + c_7^2d_4^3 + c_6^2d_5^3 + c_7^2d_5^3 + c_7^2d_6^3) + c_2(c_3^2d_2^3 + c_5^2d_2^3 + c_6^2d_2^3 + c_7^2d_2^3 + c_5^2d_3^3 + c_6^2d_3^3 + c_7^2d_3^3 + c_4^2(d_2^3 + d_3^3) + c_5^2d_4^3 + c_6^2d_4^3 + c_7^2d_4^3 + c_6^2d_5^3 + c_7^2d_5^3 + c_7^2d_6^3));$$

$$eq[16] = -\frac{1}{720} + \frac{1}{12}(c_4^3d_1d_4^2 + c_4^3d_2d_4^2 + c_4^3d_3d_4^2 + c_4^3d_1d_5^2 + c_5^3d_1d_5^2 + c_4^3d_2d_5^2 + c_5^3d_2d_5^2 + c_4^3d_3d_5^2 + c_5^3d_4d_5^2 + c_4^3d_1d_6^2 + c_5^3d_1d_6^2 + c_6^3d_1d_6^2 + c_4^3d_2d_6^2 + c_5^3d_2d_6^2 + c_6^3d_2d_6^2 + c_4^3d_3d_6^2 + c_5^3d_3d_6^2 + c_6^3d_3d_6^2 + c_5^3d_4d_6^2 + c_6^3d_4d_6^2 + c_6^3d_5d_6^2 + c_4^3d_1d_7^2 + c_5^3d_1d_7^2 + c_6^3d_1d_7^2 + c_7^3d_1d_7^2 + c_4^3d_2d_7^2 + c_5^3d_2d_7^2 + c_6^3d_2d_7^2 + c_7^3d_2d_7^2 + c_4^3d_3d_7^2 + c_5^3d_3d_7^2 + c_6^3d_3d_7^2 + c_7^3d_3d_7^2 + c_5^3d_4d_7^2 + c_6^3d_4d_7^2 + c_7^3d_4d_7^2 + c_6^3d_5d_7^2 + c_7^3d_5d_7^2 + c_7^3d_6d_7^2 + c_3^3(d_1 + d_2)(d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_2^3d_1(d_2^2 + d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2));$$

$$eq[17] = -\frac{1}{720} + \frac{1}{24}(c_3c_4d_3^4 + c_3c_5d_3^4 + c_3c_6d_3^4 + c_3c_7d_3^4 + c_3c_5d_4^4 + c_4c_5d_4^4 +$$

$$c_3c_6d_4^4 + c_4c_6d_4^4 + c_3c_7d_4^4 + c_4c_7d_4^4 + c_3c_6d_5^4 + c_4c_6d_5^4 + c_5c_6d_5^4 + c_3c_7d_5^4 + c_4c_7d_5^4 + c_5c_7d_5^4 + c_3c_7d_6^4 + c_4c_7d_6^4 + c_5c_7d_6^4 + c_6c_7d_6^4 + c_1(c_2d_1^4 + c_4d_1^4 + c_5d_1^4 + c_6d_1^4 + c_7d_1^4 + c_4d_2^4 + c_5d_2^4 + c_6d_2^4 + c_7d_2^4 + c_3(d_1^4 + d_2^4) + c_4d_3^4 + c_5d_3^4 + c_6d_3^4 + c_7d_3^4 + c_5d_4^4 + c_6d_4^4 + c_7d_4^4 + c_6d_5^4 + c_7d_5^4 + c_7d_6^4) + c_2(c_3d_2^4 + c_5d_2^4 + c_6d_2^4 + c_7d_2^4 + c_5d_3^4 + c_6d_3^4 + c_7d_3^4 + c_4(d_2^4 + d_3^4) + c_5d_4^4 + c_6d_4^4 + c_7d_4^4 + c_6d_5^4 + c_7d_5^4 + c_7d_6^4));$$

$$eq[18] = -\frac{1}{720} + \frac{1}{24}(c_4^4d_1d_4 + c_4^4d_2d_4 + c_4^4d_3d_4 + c_4^4d_1d_5 + c_5^4d_1d_5 + c_4^4d_2d_5 + c_5^4d_2d_5 + c_4^4d_3d_5 + c_5^4d_3d_5 + c_5^4d_4d_5 + c_4^4d_1d_6 + c_5^4d_1d_6 + c_6^4d_1d_6 + c_4^4d_2d_6 + c_5^4d_2d_6 + c_6^4d_2d_6 + c_4^4d_3d_6 + c_5^4d_3d_6 + c_6^4d_3d_6 + c_5^4d_4d_6 + c_6^4d_4d_6 + c_6^4d_5d_6 + c_4^4d_1d_7 + c_5^4d_1d_7 + c_6^4d_1d_7 + c_7^4d_1d_7 + c_4^4d_2d_7 + c_5^4d_2d_7 + c_6^4d_2d_7 + c_7^4d_2d_7 + c_4^4d_3d_7 + c_5^4d_3d_7 + c_6^4d_3d_7 + c_7^4d_3d_7 + c_4^4d_4d_7 + c_5^4d_4d_7 + c_6^4d_4d_7 + c_7^4d_4d_7 + c_4^4d_5d_7 + c_5^4d_5d_7 + c_6^4d_5d_7 + c_7^4d_5d_7 + c_3^4(d_1 + d_2)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2^4d_1(d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[19] = -\frac{1}{720} + \frac{1}{12}(c_3^2c_4^3d_3 + c_3^2c_5^3d_3 + c_3^2c_6^3d_3 + c_3^2c_7^3d_3 + c_3^2c_5^3d_4 + c_4^2c_5^3d_4 + c_3^2c_6^3d_4 + c_4^2c_6^3d_4 + c_3^2c_7^3d_4 + c_4^2c_7^3d_4 + c_3^2c_6^3d_5 + c_4^2c_6^3d_5 + c_5^2c_6^3d_5 + c_3^2c_7^3d_5 + c_4^2c_7^3d_5 + c_5^2c_7^3d_5 + c_3^2c_7^3d_6 + c_4^2c_7^3d_6 + c_5^2c_7^3d_6 + c_6^2c_7^3d_6 + c_1^2(c_2^3d_1 + c_4^3d_1 + c_5^3d_1 + c_6^3d_1 + c_7^3d_1 + c_4^3d_2 + c_5^3d_2 + c_6^3d_2 + c_7^3d_2 + c_3^3(d_1 + d_2) + c_4^3d_3 + c_5^3d_3 + c_6^3d_3 + c_7^3d_3 + c_5^3d_4 + c_6^3d_4 + c_7^3d_4 + c_6^3d_5 + c_7^3d_5 + c_7^3d_6) + c_2^2(c_3^3d_2 + c_5^3d_2 + c_6^3d_2 + c_7^3d_2 + c_5^3d_3 + c_6^3d_3 + c_7^3d_3 + c_4^3(d_2 + d_3) + c_5^3d_4 + c_6^3d_4 + c_7^3d_4 + c_6^3d_5 + c_7^3d_5 + c_7^3d_6));$$

$$eq[20] = -\frac{1}{720} + \frac{1}{12}(c_4d_1^2d_4^3 + c_4d_2^2d_4^3 + c_4d_3^2d_4^3 + c_4d_1^2d_5^3 + c_5d_1^2d_5^3 + c_4d_2^2d_5^3 + c_5d_2^2d_5^3 + c_4d_3^2d_5^3 + c_5d_4^2d_5^3 + c_4d_1^2d_6^3 + c_5d_1^2d_6^3 + c_6d_1^2d_6^3 + c_4d_2^2d_6^3 + c_5d_2^2d_6^3 + c_6d_2^2d_6^3 + c_4d_3^2d_6^3 + c_5d_4^2d_6^3 + c_6d_4^2d_6^3 + c_6d_5^2d_6^3 + c_4d_1^2d_7^3 + c_5d_1^2d_7^3 + c_6d_1^2d_7^3 + c_7d_1^2d_7^3 + c_4d_2^2d_7^3 + c_5d_2^2d_7^3 + c_6d_2^2d_7^3 + c_7d_2^2d_7^3 + c_4d_3^2d_7^3 + c_5d_3^2d_7^3 + c_6d_3^2d_7^3 + c_7d_3^2d_7^3 + c_5d_4^2d_7^3 + c_6d_4^2d_7^3 + c_7d_4^2d_7^3 + c_6d_5^2d_7^3 + c_7d_5^2d_7^3 + c_7d_6^2d_7^3 + c_3(d_1^2 + d_2^2)(d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3) + c_2d_1^2(d_2^3 + d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3));$$

$$eq[21] = -\frac{1}{720} + \frac{1}{8}(c_3^2c_4^2d_3^2 + c_3^2c_5^2d_3^2 + c_3^2c_6^2d_3^2 + c_3^2c_7^2d_3^2 + c_3^2c_5^2d_4^2 + c_4^2c_5^2d_4^2 + c_3^2c_6^2d_4^2 + c_4^2c_6^2d_4^2 + c_3^2c_7^2d_4^2 + c_4^2c_7^2d_4^2 + c_3^2c_6^2d_5^2 + c_4^2c_6^2d_5^2 + c_5^2c_6^2d_5^2 + c_3^2c_7^2d_5^2 + c_4^2c_7^2d_5^2 + c_5^2c_7^2d_5^2 + c_3^2c_7^2d_6^2 + c_4^2c_7^2d_6^2 + c_5^2c_7^2d_6^2 + c_6^2c_7^2d_6^2 + c_1^2(c_2^2d_1^2 + c_4^2d_1^2 + c_5^2d_1^2 + c_6^2d_1^2 + c_7^2d_1^2 + c_4^2d_2^2 + c_5^2d_2^2 + c_6^2d_2^2 + c_7^2d_2^2 + c_3^2(d_1^2 + d_2^2) + c_4^2d_3^2 + c_5^2d_3^2 + c_6^2d_3^2 + c_7^2d_3^2 + c_5^2d_4^2 + c_6^2d_4^2 + c_7^2d_4^2 + c_6^2d_5^2 + c_7^2d_5^2 + c_7^2d_6^2) + c_2^2(c_3^2d_2^2 + c_5^2d_2^2 + c_6^2d_2^2 + c_7^2d_2^2 + c_5^2d_3^2 + c_6^2d_3^2 + c_7^2d_3^2 + c_4^2(d_2^2 + d_3^2) + c_5^2d_4^2 + c_6^2d_4^2 + c_7^2d_4^2 + c_6^2d_5^2 + c_7^2d_5^2 + c_7^2d_6^2));$$

$$eq[22] = -\frac{1}{720} + \frac{1}{8}(c_4^2d_1^2d_4^2 + c_4^2d_2^2d_4^2 + c_4^2d_3^2d_4^2 + c_4^2d_1^2d_5^2 + c_5^2d_1^2d_5^2 + c_4^2d_2^2d_5^2 + c_5^2d_2^2d_5^2 + c_4^2d_3^2d_5^2 + c_5^2d_3^2d_5^2 + c_5^2d_4^2d_5^2 + c_4^2d_1^2d_6^2 + c_5^2d_1^2d_6^2 + c_6^2d_1^2d_6^2 + c_4^2d_2^2d_6^2 + c_5^2d_2^2d_6^2 + c_6^2d_2^2d_6^2 + c_4^2d_3^2d_6^2 + c_5^2d_3^2d_6^2 + c_6^2d_3^2d_6^2 + c_5^2d_4^2d_6^2 + c_6^2d_4^2d_6^2 + c_6^2d_5^2d_6^2 + c_4^2d_1^2d_7^2 + c_5^2d_1^2d_7^2 + c_6^2d_1^2d_7^2 + c_7^2d_1^2d_7^2 + c_4^2d_2^2d_7^2 + c_5^2d_2^2d_7^2 + c_6^2d_2^2d_7^2 + c_7^2d_2^2d_7^2 + c_4^2d_3^2d_7^2 + c_5^2d_3^2d_7^2 + c_6^2d_3^2d_7^2 + c_7^2d_3^2d_7^2 + c_5^2d_4^2d_7^2 + c_6^2d_4^2d_7^2 + c_7^2d_4^2d_7^2 + c_6^2d_5^2d_7^2 + c_7^2d_5^2d_7^2 + c_7^2d_6^2d_7^2 + c_3^2(d_1^2 + d_2^2)(d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_2^2d_1^2(d_2^2 + d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2));$$

$$eq[23] = -\frac{1}{720} + \frac{1}{12}(c_3^2c_4d_3^3 + c_3^2c_5d_3^3 + c_3^2c_6d_3^3 + c_3^2c_7d_3^3 + c_3^2c_5d_4^3 + c_4^2c_5d_4^3 + c_3^2c_6d_4^3 + c_4^2c_6d_4^3 + c_3^2c_7d_4^3 + c_4^2c_7d_4^3 + c_3^2c_6d_5^3 + c_4^2c_6d_5^3 + c_5^2c_6d_5^3 + c_3^2c_7d_5^3 + c_4^2c_7d_5^3 + c_5^2c_7d_5^3 + c_3^2c_7d_6^3 + c_4^2c_7d_6^3 + c_5^2c_7d_6^3 + c_6^2c_7d_6^3 + c_1^2(c_2d_1^3 + c_4d_1^3 + c_5d_1^3 + c_6d_1^3 + c_7d_1^3 + c_4d_2^3 + c_5d_2^3 + c_6d_2^3 + c_7d_2^3 + c_3(d_1^3 + d_2^3) + c_4d_3^3 + c_5d_3^3 + c_6d_3^3 + c_7d_3^3 + c_5d_4^3 + c_6d_4^3 + c_7d_4^3 + c_6d_5^3 + c_7d_5^3 + c_7d_6^3));$$

$$c_7d_3^3 + c_5d_4^3 + c_6d_4^3 + c_7d_4^3 + c_6d_5^3 + c_7d_5^3 + c_7d_6^3) + c_2^2(c_3d_2^3 + c_5d_2^3 + c_6d_2^3 + c_7d_2^3 + c_5d_3^3 + c_6d_3^3 + c_7d_3^3 + c_4(d_2^3 + d_3^3)) + c_5d_4^3 + c_6d_4^3 + c_7d_4^3 + c_6d_5^3 + c_7d_5^3 + c_7d_6^3));$$

$$\begin{aligned} eq[24] = & -\frac{1}{720} + \frac{1}{12}(c_4^3d_1^2d_4 + c_4^3d_2^2d_4 + c_4^3d_3^2d_4 + c_4^3d_1^2d_5 + c_5^3d_1^2d_5 + c_4^3d_2^2d_5 + \\ & c_5^3d_2^2d_5 + c_4^3d_3^2d_5 + c_5^3d_3^2d_5 + c_5^3d_4^2d_5 + c_4^3d_1^2d_6 + c_5^3d_1^2d_6 + c_6^3d_1^2d_6 + c_4^3d_2^2d_6 + \\ & c_5^3d_2^2d_6 + c_6^3d_2^2d_6 + c_4^3d_3^2d_6 + c_5^3d_3^2d_6 + c_6^3d_3^2d_6 + c_5^3d_4^2d_6 + c_6^3d_4^2d_6 + c_6^3d_5^2d_6 + \\ & c_4^3d_1^2d_7 + c_5^3d_1^2d_7 + c_6^3d_1^2d_7 + c_7^3d_1^2d_7 + c_4^3d_2^2d_7 + c_5^3d_2^2d_7 + c_6^3d_2^2d_7 + c_7^3d_2^2d_7 + \\ & c_4^3d_3^2d_7 + c_5^3d_3^2d_7 + c_6^3d_3^2d_7 + c_7^3d_3^2d_7 + c_5^3d_4^2d_7 + c_6^3d_4^2d_7 + c_7^3d_4^2d_7 + c_6^3d_5^2d_7 + \\ & c_7^3d_5^2d_7 + c_7^3d_6^2d_7 + c_3^3(d_1^2 + d_2^2)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2^3d_1^2(d_2 + d_3 + d_4 + \\ & d_5 + d_6 + d_7)); \end{aligned}$$

$$\begin{aligned} eq[25] = & -\frac{1}{720} + \frac{1}{12}(c_3^3c_4^2d_3 + c_3^3c_5^2d_3 + c_3^3c_6^2d_3 + c_3^3c_7^2d_3 + c_3^3c_5^2d_4 + c_4^3c_5^2d_4 + \\ & c_3^3c_6^2d_4 + c_4^3c_6^2d_4 + c_3^3c_7^2d_4 + c_4^3c_7^2d_4 + c_3^3c_6^2d_5 + c_4^3c_6^2d_5 + c_5^3c_6^2d_5 + c_3^3c_7^2d_5 + \\ & c_4^3c_7^2d_5 + c_5^3c_7^2d_5 + c_3^3c_7^2d_6 + c_4^3c_7^2d_6 + c_5^3c_7^2d_6 + c_6^3c_7^2d_6 + c_1^3(c_2^2d_1 + c_4^2d_1 + \\ & c_5^2d_1 + c_6^2d_1 + c_7^2d_1 + c_4^2d_2 + c_5^2d_2 + c_6^2d_2 + c_7^2d_2 + c_3^2(d_1 + d_2) + c_4^2d_3 + c_5^2d_3 + \\ & c_6^2d_3 + c_7^2d_3 + c_5^2d_4 + c_6^2d_4 + c_7^2d_4 + c_6^2d_5 + c_7^2d_5 + c_7^2d_6) + c_2^3(c_3^2d_2 + c_5^2d_2 + c_6^2d_2 + \\ & c_7^2d_2 + c_5^2d_3 + c_6^2d_3 + c_7^2d_3 + c_4^2(d_2 + d_3) + c_5^2d_4 + c_6^2d_4 + c_7^2d_4 + c_6^2d_5 + c_7^2d_5 + c_7^2d_6)); \end{aligned}$$

$$\begin{aligned} eq[26] = & -\frac{1}{720} + \frac{1}{12}(c_4d_1^3d_4^2 + c_4d_2^3d_4^2 + c_4d_3^3d_4^2 + c_4d_1^3d_5^2 + c_5d_1^3d_5^2 + c_4d_2^3d_5^2 + \\ & c_5d_2^3d_5^2 + c_4d_3^3d_5^2 + c_5d_3^3d_5^2 + c_5d_4^3d_5^2 + c_4d_1^3d_6^2 + c_5d_1^3d_6^2 + c_6d_1^3d_6^2 + c_4d_2^3d_6^2 + \\ & c_5d_2^3d_6^2 + c_6d_2^3d_6^2 + c_4d_3^3d_6^2 + c_5d_3^3d_6^2 + c_6d_3^3d_6^2 + c_5d_4^3d_6^2 + c_6d_4^3d_6^2 + c_6d_5^3d_6^2 + \\ & c_4d_1^3d_7^2 + c_5d_1^3d_7^2 + c_6d_1^3d_7^2 + c_7d_1^3d_7^2 + c_4d_2^3d_7^2 + c_5d_2^3d_7^2 + c_6d_2^3d_7^2 + c_7d_2^3d_7^2 + \\ & c_4d_3^3d_7^2 + c_5d_3^3d_7^2 + c_6d_3^3d_7^2 + c_7d_3^3d_7^2 + c_5d_4^3d_7^2 + c_6d_4^3d_7^2 + c_7d_4^3d_7^2 + c_6d_5^3d_7^2 + \\ & c_7d_5^3d_7^2 + c_7d_6^3d_7^2 + c_3(d_1^3 + d_2^3)(d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_2d_1^3(d_2^2 + d_3^2 + \\ & d_4^2 + d_5^2 + d_6^2 + d_7^2)); \end{aligned}$$

$$\begin{aligned} eq[27] = & -\frac{1}{720} + \frac{1}{12}(c_3^3c_4d_3^2 + c_3^3c_5d_3^2 + c_3^3c_6d_3^2 + c_3^3c_7d_3^2 + c_3^3c_5d_4^2 + c_4^3c_5d_4^2 + \\ & c_3^3c_6d_4^2 + c_4^3c_6d_4^2 + c_3^3c_7d_4^2 + c_4^3c_7d_4^2 + c_3^3c_6d_5^2 + c_4^3c_6d_5^2 + c_5^3c_6d_5^2 + c_3^3c_7d_5^2 + \\ & c_4^3c_7d_5^2 + c_5^3c_7d_5^2 + c_3^3c_7d_6^2 + c_4^3c_7d_6^2 + c_5^3c_7d_6^2 + c_6^3c_7d_6^2 + c_1^3(c_2d_1^2 + c_4d_1^2 + \\ & c_5d_1^2 + c_6d_1^2 + c_7d_1^2 + c_4d_2^2 + c_5d_2^2 + c_6d_2^2 + c_7d_2^2 + c_3(d_1^2 + d_2^2) + c_4d_3^2 + c_5d_3^2 + c_6d_3^2 + \\ & c_7d_3^2 + c_5d_4^2 + c_6d_4^2 + c_7d_4^2 + c_6d_5^2 + c_7d_5^2 + c_7d_6^2) + c_2^3(c_3d_2^2 + c_5d_2^2 + c_6d_2^2 + c_7d_2^2 + \\ & c_5d_3^2 + c_6d_3^2 + c_7d_3^2 + c_4(d_2^2 + d_3^2) + c_5d_4^2 + c_6d_4^2 + c_7d_4^2 + c_6d_5^2 + c_7d_5^2 + c_7d_6^2)); \end{aligned}$$

$$\begin{aligned} eq[28] = & -\frac{1}{720} + \frac{1}{12}(c_4^2d_1^3d_4 + c_4^2d_2^3d_4 + c_4^2d_3^3d_4 + c_4^2d_1^3d_5 + c_5^2d_1^3d_5 + c_4^2d_2^3d_5 + \\ & c_5^2d_2^3d_5 + c_4^2d_3^3d_5 + c_5^2d_4^3d_5 + c_4^2d_1^3d_6 + c_5^2d_1^3d_6 + c_6^2d_1^3d_6 + c_4^2d_2^3d_6 + \\ & c_5^2d_2^3d_6 + c_6^2d_2^3d_6 + c_4^2d_3^3d_6 + c_5^2d_3^3d_6 + c_6^2d_3^3d_6 + c_5^2d_4^3d_6 + c_6^2d_4^3d_6 + c_6^2d_5^3d_6 + \\ & c_4^2d_1^3d_7 + c_5^2d_1^3d_7 + c_6^2d_1^3d_7 + c_7^2d_1^3d_7 + c_4^2d_2^3d_7 + c_5^2d_2^3d_7 + c_6^2d_2^3d_7 + c_7^2d_2^3d_7 + \\ & c_4^2d_3^3d_7 + c_5^2d_3^3d_7 + c_6^2d_3^3d_7 + c_7^2d_3^3d_7 + c_5^2d_4^3d_7 + c_6^2d_4^3d_7 + c_7^2d_4^3d_7 + c_6^2d_5^3d_7 + \\ & c_7^2d_5^3d_7 + c_7^2d_6^3d_7 + c_3^2(d_1^3 + d_2^3)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2^2d_1^3(d_2 + d_3 + d_4 + \\ & d_5 + d_6 + d_7)); \end{aligned}$$

$$\begin{aligned} eq[29] = & -\frac{1}{720} + \frac{1}{24}(c_3^4c_4d_3 + c_3^4c_5d_3 + c_3^4c_6d_3 + c_3^4c_7d_3 + c_3^4c_5d_4 + c_4^4c_5d_4 + \\ & c_3^4c_6d_4 + c_4^4c_6d_4 + c_3^4c_7d_4 + c_4^4c_7d_4 + c_3^4c_6d_5 + c_4^4c_6d_5 + c_5^4c_6d_5 + c_3^4c_7d_5 + c_4^4c_7d_5 + \\ & c_5^4c_7d_5 + c_3^4c_7d_6 + c_4^4c_7d_6 + c_5^4c_7d_6 + c_6^4c_7d_6 + c_1^4(c_2d_1 + c_4d_1 + c_5d_1 + c_6d_1 + c_7d_1 + \\ & c_4d_2 + c_5d_2 + c_6d_2 + c_7d_2 + c_3(d_1 + d_2) + c_4d_3 + c_5d_3 + c_6d_3 + c_7d_3 + c_5d_4 + c_6d_4 + \\ & c_7d_4 + c_6d_5 + c_7d_5 + c_7d_6) + c_2^4(c_3d_2 + c_5d_2 + c_6d_2 + c_7d_2 + c_5d_3 + c_6d_3 + c_7d_3 + c_4(d_2 + \\ & d_3) + c_5d_4 + c_6d_4 + c_7d_4 + c_6d_5 + c_7d_5 + c_7d_6)); \end{aligned}$$

$$eq[30] = -\frac{1}{720} + \frac{1}{24} (c_4 d_1^4 d_4 + c_4 d_2^4 d_4 + c_4 d_3^4 d_4 + c_4 d_1^4 d_5 + c_5 d_1^4 d_5 + c_4 d_2^4 d_5 + c_5 d_2^4 d_5 + c_4 d_3^4 d_5 + c_5 d_3^4 d_5 + c_5 d_4^4 d_5 + c_4 d_1^4 d_6 + c_5 d_1^4 d_6 + c_6 d_1^4 d_6 + c_4 d_2^4 d_6 + c_5 d_2^4 d_6 + c_6 d_2^4 d_6 + c_4 d_3^4 d_6 + c_5 d_3^4 d_6 + c_6 d_3^4 d_6 + c_5 d_4^4 d_6 + c_4 d_1^4 d_7 + c_5 d_1^4 d_7 + c_6 d_1^4 d_7 + c_7 d_1^4 d_7 + c_4 d_2^4 d_7 + c_5 d_2^4 d_7 + c_6 d_2^4 d_7 + c_7 d_2^4 d_7 + c_4 d_3^4 d_7 + c_5 d_3^4 d_7 + c_6 d_3^4 d_7 + c_7 d_3^4 d_7 + c_5 d_4^4 d_7 + c_6 d_4^4 d_7 + c_7 d_4^4 d_7 + c_6 d_5^4 d_7 + c_7 d_5^4 d_7 + c_7 d_6^4 d_7 + c_3 (d_1^4 + d_2^4) (d_3 + d_4 + d_5 + d_6 + d_7) + c_2 d_1^4 (d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[31] = -\frac{1}{720} + \frac{1}{6} (c_3 c_4 d_3 d_4^3 + c_3 c_4 d_3 d_5^3 + c_3 c_5 d_3 d_5^3 + c_3 c_5 d_4 d_5^3 + c_4 c_5 d_4 d_5^3 + c_3 c_4 d_3 d_6^3 + c_3 c_5 d_3 d_6^3 + c_3 c_6 d_3 d_6^3 + c_3 c_5 d_4 d_6^3 + c_4 c_5 d_4 d_6^3 + c_3 c_6 d_4 d_6^3 + c_4 c_6 d_4 d_6^3 + c_3 c_6 d_5 d_6^3 + c_4 c_6 d_5 d_6^3 + c_5 c_6 d_5 d_6^3 + c_3 c_4 d_3 d_7^3 + c_3 c_5 d_3 d_7^3 + c_3 c_6 d_3 d_7^3 + c_3 c_7 d_3 d_7^3 + c_3 c_5 d_4 d_7^3 + c_4 c_5 d_4 d_7^3 + c_3 c_6 d_4 d_7^3 + c_4 c_6 d_4 d_7^3 + c_3 c_7 d_4 d_7^3 + c_4 c_7 d_4 d_7^3 + c_3 c_6 d_5 d_7^3 + c_4 c_6 d_5 d_7^3 + c_5 c_6 d_5 d_7^3 + c_3 c_7 d_5 d_7^3 + c_4 c_7 d_5 d_7^3 + c_5 c_7 d_5 d_7^3 + c_3 c_7 d_6 d_7^3 + c_4 c_7 d_6 d_7^3 + c_5 c_7 d_6 d_7^3 + c_6 c_7 d_6 d_7^3 + c_2 (c_5 d_2 d_5^3 + c_5 d_3 d_5^3 + c_5 d_4 d_5^3 + c_5 d_2 d_6^3 + c_6 d_2 d_6^3 + c_5 d_3 d_6^3 + c_6 d_3 d_6^3 + c_5 d_4 d_6^3 + c_6 d_4 d_6^3 + c_6 d_5 d_6^3 + c_5 d_2 d_7^3 + c_6 d_2 d_7^3 + c_7 d_2 d_7^3 + c_5 d_3 d_7^3 + c_6 d_3 d_7^3 + c_7 d_3 d_7^3 + c_5 d_4 d_7^3 + c_6 d_4 d_7^3 + c_7 d_4 d_7^3 + c_6 d_5 d_7^3 + c_7 d_5 d_7^3 + c_7 d_6 d_7^3 + c_4 (d_2 + d_3) (d_4^3 + d_5^3 + d_6^3 + d_7^3) + c_3 d_2 (d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3)) + c_1 (c_4 d_1 d_4^3 + c_4 d_2 d_4^3 + c_4 d_3 d_4^3 + c_4 d_1 d_5^3 + c_5 d_1 d_5^3 + c_4 d_2 d_5^3 + c_5 d_2 d_5^3 + c_4 d_3 d_5^3 + c_5 d_3 d_5^3 + c_5 d_4 d_5^3 + c_4 d_1 d_6^3 + c_5 d_1 d_6^3 + c_6 d_1 d_6^3 + c_4 d_2 d_6^3 + c_5 d_2 d_6^3 + c_6 d_2 d_6^3 + c_4 d_3 d_6^3 + c_5 d_3 d_6^3 + c_6 d_3 d_6^3 + c_5 d_4 d_6^3 + c_6 d_4 d_6^3 + c_6 d_5 d_6^3 + c_4 d_1 d_7^3 + c_5 d_1 d_7^3 + c_6 d_1 d_7^3 + c_7 d_1 d_7^3 + c_4 d_2 d_7^3 + c_5 d_2 d_7^3 + c_6 d_2 d_7^3 + c_7 d_2 d_7^3 + c_4 d_3 d_7^3 + c_5 d_3 d_7^3 + c_6 d_3 d_7^3 + c_7 d_3 d_7^3 + c_5 d_4 d_7^3 + c_6 d_4 d_7^3 + c_7 d_4 d_7^3 + c_6 d_5 d_7^3 + c_7 d_5 d_7^3 + c_7 d_6 d_7^3 + c_3 (d_1 + d_2) (d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3) + c_2 d_1 (d_2^3 + d_3^3 + d_4^3 + d_5^3 + d_6^3 + d_7^3));$$

$$eq[32] = -\frac{1}{720} + \frac{1}{6} (c_4 c_5^3 d_1 d_4 + c_4 c_6^3 d_1 d_4 + c_4 c_7^3 d_1 d_4 + c_4 c_5^3 d_2 d_4 + c_4 c_6^3 d_2 d_4 + c_4 c_7^3 d_2 d_4 + c_4 c_5^3 d_3 d_4 + c_4 c_6^3 d_3 d_4 + c_4 c_7^3 d_3 d_4 + c_4 c_6^3 d_1 d_5 + c_5 c_6^3 d_1 d_5 + c_4 c_7^3 d_1 d_5 + c_5 c_7^3 d_1 d_5 + c_4 c_6^3 d_2 d_5 + c_5 c_6^3 d_2 d_5 + c_4 c_7^3 d_2 d_5 + c_5 c_7^3 d_2 d_5 + c_4 c_6^3 d_3 d_5 + c_5 c_6^3 d_3 d_5 + c_4 c_7^3 d_3 d_5 + c_5 c_7^3 d_3 d_5 + c_5 c_6^3 d_4 d_5 + c_5 c_7^3 d_4 d_5 + c_4 c_7^3 d_1 d_6 + c_5 c_7^3 d_1 d_6 + c_6 c_7^3 d_1 d_6 + c_4 c_7^3 d_2 d_6 + c_5 c_7^3 d_2 d_6 + c_6 c_7^3 d_2 d_6 + c_4 c_7^3 d_3 d_6 + c_5 c_7^3 d_3 d_6 + c_6 c_7^3 d_3 d_6 + c_5 c_7^3 d_4 d_6 + c_6 c_7^3 d_4 d_6 + c_6 c_7^3 d_5 d_6 + c_2 d_1 (c_3^3 d_2 + c_5^3 d_2 + c_6^3 d_2 + c_7^3 d_2 + c_5^3 d_3 + c_6^3 d_3 + c_7^3 d_3 + c_4^3 (d_2 + d_3) + c_5^3 d_4 + c_6^3 d_4 + c_7^3 d_4 + c_6^3 d_5 + c_7^3 d_5 + c_7^3 d_6) + c_3 (d_1 + d_2) (c_4^3 d_3 + c_6^3 d_3 + c_7^3 d_3 + c_6^3 d_4 + c_7^3 d_4 + c_5^3 (d_3 + d_4) + c_6^3 d_5 + c_7^3 d_5 + c_7^3 d_6));$$

$$eq[33] = -\frac{1}{720} + \frac{1}{4} (c_3 c_4^2 d_3 d_4^2 + c_3 c_4^2 d_3 d_5^2 + c_3 c_5^2 d_3 d_5^2 + c_3 c_5^2 d_4 d_5^2 + c_4 c_5^2 d_4 d_5^2 + c_3 c_4^2 d_3 d_6^2 + c_3 c_5^2 d_3 d_6^2 + c_3 c_6^2 d_3 d_6^2 + c_3 c_5^2 d_4 d_6^2 + c_4 c_5^2 d_4 d_6^2 + c_3 c_6^2 d_4 d_6^2 + c_4 c_6^2 d_4 d_6^2 + c_3 c_6^2 d_5 d_6^2 + c_4 c_6^2 d_5 d_6^2 + c_5 c_6^2 d_5 d_6^2 + c_3 c_4^2 d_3 d_7^2 + c_3 c_5^2 d_3 d_7^2 + c_3 c_6^2 d_3 d_7^2 + c_3 c_7^2 d_3 d_7^2 + c_3 c_5^2 d_4 d_7^2 + c_4 c_5^2 d_4 d_7^2 + c_3 c_6^2 d_4 d_7^2 + c_4 c_6^2 d_4 d_7^2 + c_3 c_7^2 d_4 d_7^2 + c_4 c_7^2 d_4 d_7^2 + c_3 c_6^2 d_5 d_7^2 + c_4 c_6^2 d_5 d_7^2 + c_5 c_6^2 d_5 d_7^2 + c_3 c_7^2 d_5 d_7^2 + c_4 c_7^2 d_5 d_7^2 + c_5 c_7^2 d_5 d_7^2 + c_3 c_7^2 d_6 d_7^2 + c_4 c_7^2 d_6 d_7^2 + c_5 c_7^2 d_6 d_7^2 + c_6 c_7^2 d_6 d_7^2 + c_2 (c_5^2 d_2 d_5^2 + c_5^2 d_3 d_5^2 + c_5^2 d_4 d_5^2 + c_5^2 d_2 d_6^2 + c_6^2 d_2 d_6^2 + c_5^2 d_3 d_6^2 + c_6^2 d_3 d_6^2 + c_5^2 d_4 d_6^2 + c_6^2 d_4 d_6^2 + c_5^2 d_5 d_6^2 + c_6^2 d_5 d_6^2 + c_5^2 d_2 d_7^2 + c_6^2 d_2 d_7^2 + c_7^2 d_2 d_7^2 + c_5^2 d_3 d_7^2 + c_6^2 d_3 d_7^2 + c_7^2 d_3 d_7^2 + c_5^2 d_4 d_7^2 + c_6^2 d_4 d_7^2 + c_7^2 d_4 d_7^2 + c_6^2 d_5 d_7^2 + c_7^2 d_5 d_7^2 + c_7^2 d_6 d_7^2 + c_4^2 (d_2 + d_3) (d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_3^2 d_2 (d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2)) + c_1 (c_4^2 d_1 d_4^2 + c_4^2 d_2 d_4^2 + c_4^2 d_3 d_4^2 + c_4^2 d_1 d_5^2 + c_5^2 d_1 d_5^2 + c_4^2 d_2 d_5^2 + c_5^2 d_2 d_5^2 + c_4^2 d_3 d_5^2 + c_5^2 d_3 d_5^2 + c_5^2 d_4 d_5^2 + c_4^2 d_1 d_6^2 + c_5^2 d_1 d_6^2 + c_6^2 d_1 d_6^2 + c_4^2 d_2 d_6^2 + c_5^2 d_2 d_6^2 + c_6^2 d_2 d_6^2 + c_4^2 d_3 d_6^2 + c_5^2 d_3 d_6^2 + c_6^2 d_3 d_6^2 + c_5^2 d_4 d_6^2 + c_6^2 d_4 d_6^2 + c_6^2 d_5 d_6^2 + c_4^2 d_1 d_7^2 + c_5^2 d_1 d_7^2 + c_6^2 d_1 d_7^2 + c_7^2 d_1 d_7^2 + c_4^2 d_2 d_7^2 + c_5^2 d_2 d_7^2 + c_6^2 d_2 d_7^2 + c_7^2 d_2 d_7^2 + c_4^2 d_3 d_7^2 + c_5^2 d_3 d_7^2 + c_6^2 d_3 d_7^2 + c_7^2 d_3 d_7^2 + c_5^2 d_4 d_7^2 + c_6^2 d_4 d_7^2 + c_7^2 d_4 d_7^2 + c_6^2 d_5 d_7^2 + c_7^2 d_5 d_7^2 + c_7^2 d_6 d_7^2 + c_3^2 (d_1 + d_2) (d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_2^2 d_1 (d_2^2 + d_3^2 + d_4^2 + d_5^2 +$$

$$d_6^2 + d_7^2))));$$

$$\begin{aligned} eq[34] = & -\frac{1}{720} + \frac{1}{4} (c_4 c_5^2 d_1 d_4^2 + c_4 c_6^2 d_1 d_4^2 + c_4 c_7^2 d_1 d_4^2 + c_4 c_5^2 d_2 d_4^2 + c_4 c_6^2 d_2 d_4^2 + \\ & c_4 c_7^2 d_2 d_4^2 + c_4 c_5^2 d_3 d_4^2 + c_4 c_6^2 d_3 d_4^2 + c_4 c_7^2 d_3 d_4^2 + c_4 c_6^2 d_1 d_5^2 + c_5 c_6^2 d_1 d_5^2 + c_4 c_7^2 d_1 d_5^2 + \\ & c_5 c_7^2 d_1 d_5^2 + c_4 c_6^2 d_2 d_5^2 + c_5 c_6^2 d_2 d_5^2 + c_4 c_7^2 d_2 d_5^2 + c_5 c_7^2 d_2 d_5^2 + c_4 c_6^2 d_3 d_5^2 + c_5 c_6^2 d_3 d_5^2 + \\ & c_4 c_7^2 d_3 d_5^2 + c_5 c_7^2 d_3 d_5^2 + c_5 c_6^2 d_4 d_5^2 + c_5 c_7^2 d_4 d_5^2 + c_4 c_7^2 d_1 d_6^2 + c_5 c_7^2 d_1 d_6^2 + c_6 c_7^2 d_1 d_6^2 + \\ & c_4 c_7^2 d_2 d_6^2 + c_5 c_7^2 d_2 d_6^2 + c_6 c_7^2 d_2 d_6^2 + c_4 c_7^2 d_3 d_6^2 + c_5 c_7^2 d_3 d_6^2 + c_6 c_7^2 d_3 d_6^2 + c_5 c_7^2 d_4 d_6^2 + \\ & c_6 c_7^2 d_4 d_6^2 + c_6 c_7^2 d_5 d_6^2 + c_2 d_1 (c_3^2 d_2^2 + c_5^2 d_2^2 + c_6^2 d_2^2 + c_7^2 d_2^2 + c_5^2 d_3^2 + c_6^2 d_3^2 + \\ & c_7^2 d_3^2 + c_4^2 (d_2^2 + d_3^2) + c_5^2 d_4^2 + c_6^2 d_4^2 + c_7^2 d_4^2 + c_6^2 d_5^2 + c_7^2 d_5^2 + c_7^2 d_6^2) + c_3 (d_1 + \\ & d_2) (c_4^2 d_3^2 + c_6^2 d_3^2 + c_7^2 d_3^2 + c_6^2 d_4^2 + c_7^2 d_4^2 + c_5^2 (d_3^2 + d_4^2) + c_6^2 d_5^2 + c_7^2 d_5^2 + \\ & c_7^2 d_6^2)); \end{aligned}$$

$$\begin{aligned} eq[35] = & -\frac{1}{720} + \frac{1}{6} (c_3 c_4^3 d_3 d_4 + c_3 c_4^3 d_3 d_5 + c_3 c_5^3 d_3 d_5 + c_3 c_5^3 d_4 d_5 + c_4 c_5^3 d_4 d_5 + \\ & c_3 c_4^3 d_3 d_6 + c_3 c_5^3 d_3 d_6 + c_3 c_6^3 d_3 d_6 + c_3 c_5^3 d_4 d_6 + c_4 c_5^3 d_4 d_6 + c_3 c_6^3 d_4 d_6 + c_4 c_6^3 d_4 d_6 + \\ & c_3 c_6^3 d_5 d_6 + c_4 c_6^3 d_5 d_6 + c_5 c_6^3 d_5 d_6 + c_3 c_4^3 d_3 d_7 + c_3 c_5^3 d_3 d_7 + c_3 c_6^3 d_3 d_7 + c_3 c_7^3 d_3 d_7 + \\ & c_3 c_5^3 d_4 d_7 + c_4 c_5^3 d_4 d_7 + c_3 c_6^3 d_4 d_7 + c_4 c_6^3 d_4 d_7 + c_3 c_7^3 d_4 d_7 + c_4 c_7^3 d_4 d_7 + c_3 c_6^3 d_5 d_7 + \\ & c_4 c_6^3 d_5 d_7 + c_5 c_6^3 d_5 d_7 + c_3 c_7^3 d_5 d_7 + c_4 c_7^3 d_5 d_7 + c_5 c_7^3 d_5 d_7 + c_3 c_7^3 d_6 d_7 + c_4 c_7^3 d_6 d_7 + \\ & c_5 c_7^3 d_6 d_7 + c_6 c_7^3 d_6 d_7 + c_2 (c_5^3 d_2 d_5 + c_5^3 d_3 d_5 + c_5^3 d_4 d_5 + c_5^3 d_2 d_6 + c_6^3 d_2 d_6 + c_5^3 d_3 d_6 + \\ & c_6^3 d_3 d_6 + c_5^3 d_4 d_6 + c_6^3 d_4 d_6 + c_6^3 d_5 d_6 + c_5^3 d_2 d_7 + c_6^3 d_2 d_7 + c_7^3 d_2 d_7 + c_5^3 d_3 d_7 + c_6^3 d_3 d_7 + \\ & c_7^3 d_3 d_7 + c_5^3 d_4 d_7 + c_6^3 d_4 d_7 + c_7^3 d_4 d_7 + c_6^3 d_5 d_7 + c_7^3 d_5 d_7 + c_7^3 d_6 d_7 + c_4^3 (d_2 + d_3) (d_4 + \\ & d_5 + d_6 + d_7) + c_3^3 d_2 (d_3 + d_4 + d_5 + d_6 + d_7)) + c_1 (c_4^3 d_1 d_4 + c_4^3 d_2 d_4 + c_4^3 d_3 d_4 + \\ & c_4^3 d_1 d_5 + c_5^3 d_1 d_5 + c_4^3 d_2 d_5 + c_5^3 d_2 d_5 + c_4^3 d_3 d_5 + c_5^3 d_3 d_5 + c_5^3 d_4 d_5 + c_4^3 d_1 d_6 + c_5^3 d_1 d_6 + \\ & c_6^3 d_1 d_6 + c_4^3 d_2 d_6 + c_5^3 d_2 d_6 + c_6^3 d_2 d_6 + c_4^3 d_3 d_6 + c_5^3 d_3 d_6 + c_6^3 d_3 d_6 + c_5^3 d_4 d_6 + c_6^3 d_4 d_6 + \\ & c_6^3 d_5 d_6 + c_4^3 d_1 d_7 + c_5^3 d_1 d_7 + c_6^3 d_1 d_7 + c_7^3 d_1 d_7 + c_4^3 d_2 d_7 + c_5^3 d_2 d_7 + c_6^3 d_2 d_7 + c_7^3 d_2 d_7 + \\ & c_4^3 d_3 d_7 + c_5^3 d_3 d_7 + c_6^3 d_3 d_7 + c_7^3 d_3 d_7 + c_5^3 d_4 d_7 + c_6^3 d_4 d_7 + c_7^3 d_4 d_7 + c_6^3 d_5 d_7 + c_7^3 d_5 d_7 + \\ & c_7^3 d_6 d_7 + c_3^3 (d_1 + d_2) (d_3 + d_4 + d_5 + d_6 + d_7) + c_2^3 d_1 (d_2 + d_3 + d_4 + d_5 + d_6 + d_7)); \end{aligned}$$

$$\begin{aligned} eq[36] = & -\frac{1}{720} + \frac{1}{6} (c_4 c_5 d_1 d_4^3 + c_4 c_6 d_1 d_4^3 + c_4 c_7 d_1 d_4^3 + c_4 c_5 d_2 d_4^3 + c_4 c_6 d_2 d_4^3 + \\ & c_4 c_7 d_2 d_4^3 + c_4 c_5 d_3 d_4^3 + c_4 c_6 d_3 d_4^3 + c_4 c_7 d_3 d_4^3 + c_4 c_6 d_1 d_5^3 + c_5 c_6 d_1 d_5^3 + c_4 c_7 d_1 d_5^3 + \\ & c_5 c_7 d_1 d_5^3 + c_4 c_6 d_2 d_5^3 + c_5 c_6 d_2 d_5^3 + c_4 c_7 d_2 d_5^3 + c_5 c_7 d_2 d_5^3 + c_4 c_6 d_3 d_5^3 + c_5 c_6 d_3 d_5^3 + \\ & c_4 c_7 d_3 d_5^3 + c_5 c_7 d_3 d_5^3 + c_5 c_6 d_4 d_5^3 + c_5 c_7 d_4 d_5^3 + c_4 c_7 d_1 d_6^3 + c_5 c_7 d_1 d_6^3 + c_6 c_7 d_1 d_6^3 + \\ & c_4 c_7 d_2 d_6^3 + c_5 c_7 d_2 d_6^3 + c_6 c_7 d_2 d_6^3 + c_4 c_7 d_3 d_6^3 + c_5 c_7 d_3 d_6^3 + c_6 c_7 d_3 d_6^3 + c_5 c_7 d_4 d_6^3 + \\ & c_6 c_7 d_4 d_6^3 + c_6 c_7 d_5 d_6^3 + c_2 d_1 (c_3 d_2^3 + c_5 d_2^3 + c_6 d_2^3 + c_7 d_2^3 + c_5 d_3^3 + c_6 d_3^3 + c_7 d_3^3 + \\ & c_4 (d_2^3 + d_3^3) + c_5 d_4^3 + c_6 d_4^3 + c_7 d_4^3 + c_6 d_5^3 + c_7 d_5^3 + c_7 d_6^3) + c_3 (d_1 + d_2) (c_4 d_3^3 + \\ & c_6 d_3^3 + c_7 d_3^3 + c_6 d_4^3 + c_7 d_4^3 + c_5 (d_3^3 + d_4^3) + c_6 d_5^3 + c_7 d_5^3 + c_7 d_6^3)); \end{aligned}$$

$$\begin{aligned} eq[37] = & -\frac{1}{720} + \frac{1}{4} (c_3 c_4 d_3^2 d_4^2 + c_3 c_4 d_3^2 d_5^2 + c_3 c_5 d_3^2 d_5^2 + c_3 c_5 d_4^2 d_5^2 + c_4 c_5 d_4^2 d_5^2 + \\ & c_3 c_4 d_3^2 d_6^2 + c_3 c_5 d_3^2 d_6^2 + c_3 c_6 d_3^2 d_6^2 + c_3 c_5 d_4^2 d_6^2 + c_4 c_5 d_4^2 d_6^2 + c_3 c_6 d_4^2 d_6^2 + c_4 c_6 d_4^2 d_6^2 + \\ & c_3 c_6 d_5^2 d_6^2 + c_4 c_6 d_5^2 d_6^2 + c_5 c_6 d_5^2 d_6^2 + c_3 c_4 d_3^2 d_7^2 + c_3 c_5 d_3^2 d_7^2 + c_3 c_6 d_3^2 d_7^2 + c_3 c_7 d_3^2 d_7^2 + \\ & c_3 c_5 d_4^2 d_7^2 + c_4 c_5 d_4^2 d_7^2 + c_3 c_6 d_4^2 d_7^2 + c_4 c_6 d_4^2 d_7^2 + c_3 c_7 d_4^2 d_7^2 + c_4 c_7 d_4^2 d_7^2 + c_3 c_6 d_5^2 d_7^2 + \\ & c_4 c_6 d_5^2 d_7^2 + c_5 c_6 d_5^2 d_7^2 + c_3 c_7 d_5^2 d_7^2 + c_4 c_7 d_5^2 d_7^2 + c_5 c_7 d_5^2 d_7^2 + c_3 c_7 d_6^2 d_7^2 + c_4 c_7 d_6^2 d_7^2 + \\ & c_5 c_7 d_6^2 d_7^2 + c_6 c_7 d_6^2 d_7^2 + c_2 (c_5 d_2^2 d_5^2 + c_5 d_3^2 d_5^2 + c_5 d_4^2 d_5^2 + c_5 d_2^2 d_6^2 + c_6 d_2^2 d_6^2 + \\ & c_5 d_3^2 d_6^2 + c_6 d_3^2 d_6^2 + c_5 d_4^2 d_6^2 + c_6 d_4^2 d_6^2 + c_6 d_5^2 d_6^2 + c_5 d_2^2 d_7^2 + c_6 d_2^2 d_7^2 + c_7 d_2^2 d_7^2 + \\ & c_5 d_3^2 d_7^2 + c_6 d_3^2 d_7^2 + c_7 d_3^2 d_7^2 + c_5 d_4^2 d_7^2 + c_6 d_4^2 d_7^2 + c_7 d_4^2 d_7^2 + c_6 d_5^2 d_7^2 + c_7 d_5^2 d_7^2 + \\ & c_7 d_6^2 d_7^2 + c_4 (d_2^2 + d_3^2) (d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_3 d_2^2 (d_3^2 + d_4^2 + d_5^2 + d_6^2 + \\ & d_7^2)) + c_1 (c_4 d_1^2 d_4^2 + c_4 d_2^2 d_4^2 + c_4 d_3^2 d_4^2 + c_4 d_1^2 d_5^2 + c_5 d_1^2 d_5^2 + c_4 d_2^2 d_5^2 + c_5 d_2^2 d_5^2 + \\ & c_4 d_3^2 d_5^2 + c_5 d_3^2 d_5^2 + c_5 d_4^2 d_5^2 + c_4 d_1^2 d_6^2 + c_5 d_1^2 d_6^2 + c_6 d_1^2 d_6^2 + c_4 d_2^2 d_6^2 + c_5 d_2^2 d_6^2 + \end{aligned}$$

$$c_6d_2^2d_6^2 + c_4d_3^2d_6^2 + c_5d_3^2d_6^2 + c_6d_3^2d_6^2 + c_5d_4^2d_6^2 + c_6d_4^2d_6^2 + c_6d_5^2d_6^2 + c_4d_1^2d_7^2 + c_5d_1^2d_7^2 + c_6d_1^2d_7^2 + c_7d_1^2d_7^2 + c_4d_2^2d_7^2 + c_5d_2^2d_7^2 + c_6d_2^2d_7^2 + c_7d_2^2d_7^2 + c_4d_3^2d_7^2 + c_5d_3^2d_7^2 + c_6d_3^2d_7^2 + c_7d_3^2d_7^2 + c_5d_4^2d_7^2 + c_6d_4^2d_7^2 + c_7d_4^2d_7^2 + c_6d_5^2d_7^2 + c_7d_5^2d_7^2 + c_7d_6^2d_7^2 + c_3(d_1^2 + d_2^2)(d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_2d_1^2(d_2^2 + d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2));$$

$$eq[38] = -\frac{1}{720} + \frac{1}{4}(c_4^2c_5^2d_1d_4 + c_4^2c_6^2d_1d_4 + c_4^2c_7^2d_1d_4 + c_4^2c_5^2d_2d_4 + c_4^2c_6^2d_2d_4 + c_4^2c_7^2d_2d_4 + c_4^2c_5^2d_3d_4 + c_4^2c_6^2d_3d_4 + c_4^2c_7^2d_3d_4 + c_4^2c_6^2d_1d_5 + c_5^2c_6^2d_1d_5 + c_4^2c_7^2d_1d_5 + c_5^2c_7^2d_1d_5 + c_4^2c_6^2d_2d_5 + c_5^2c_6^2d_2d_5 + c_4^2c_7^2d_2d_5 + c_5^2c_7^2d_2d_5 + c_4^2c_6^2d_3d_5 + c_5^2c_6^2d_3d_5 + c_4^2c_7^2d_3d_5 + c_5^2c_7^2d_3d_5 + c_5^2c_6^2d_4d_5 + c_5^2c_7^2d_4d_5 + c_4^2c_7^2d_1d_6 + c_5^2c_7^2d_1d_6 + c_6^2c_7^2d_1d_6 + c_4^2c_7^2d_2d_6 + c_5^2c_7^2d_2d_6 + c_6^2c_7^2d_2d_6 + c_4^2c_7^2d_3d_6 + c_5^2c_7^2d_3d_6 + c_6^2c_7^2d_3d_6 + c_5^2c_7^2d_4d_6 + c_6^2c_7^2d_4d_6 + c_6^2c_7^2d_5d_6 + c_2^2d_1(c_3^2d_2 + c_5^2d_2 + c_6^2d_2 + c_7^2d_2 + c_5^2d_3 + c_6^2d_3 + c_7^2d_3 + c_4^2(d_2 + d_3) + c_5^2d_4 + c_6^2d_4 + c_7^2d_4 + c_6^2d_5 + c_7^2d_5 + c_7^2d_6) + c_3^2(d_1 + d_2)(c_4^2d_3 + c_6^2d_3 + c_7^2d_3 + c_6^2d_4 + c_7^2d_4 + c_5^2(d_3 + d_4) + c_6^2d_5 + c_7^2d_5 + c_7^2d_6));$$

$$eq[39] = -\frac{1}{720} + \frac{1}{4}(c_3c_4^2d_3^2d_4 + c_3c_4^2d_3^2d_5 + c_3c_5^2d_3^2d_5 + c_3c_5^2d_4^2d_5 + c_4c_5^2d_4^2d_5 + c_3c_4^2d_3^2d_6 + c_3c_5^2d_3^2d_6 + c_3c_6^2d_3^2d_6 + c_3c_5^2d_4^2d_6 + c_4c_5^2d_4^2d_6 + c_3c_6^2d_4^2d_6 + c_4c_6^2d_4^2d_6 + c_3c_6^2d_5^2d_6 + c_4c_6^2d_5^2d_6 + c_5c_6^2d_5^2d_6 + c_3c_4^2d_3^2d_7 + c_3c_5^2d_3^2d_7 + c_3c_6^2d_3^2d_7 + c_3c_7^2d_3^2d_7 + c_3c_5^2d_4^2d_7 + c_4c_5^2d_4^2d_7 + c_3c_6^2d_4^2d_7 + c_4c_6^2d_4^2d_7 + c_3c_7^2d_4^2d_7 + c_4c_7^2d_4^2d_7 + c_3c_6^2d_5^2d_7 + c_4c_6^2d_5^2d_7 + c_5c_6^2d_5^2d_7 + c_3c_7^2d_5^2d_7 + c_4c_7^2d_5^2d_7 + c_5c_7^2d_5^2d_7 + c_3c_7^2d_6^2d_7 + c_4c_7^2d_6^2d_7 + c_5c_7^2d_6^2d_7 + c_6c_7^2d_6^2d_7 + c_2(c_5^2d_2^2d_5 + c_5^2d_3^2d_5 + c_5^2d_4^2d_5 + c_5^2d_2^2d_6 + c_6^2d_2^2d_6 + c_5^2d_3^2d_6 + c_6^2d_3^2d_6 + c_5^2d_4^2d_6 + c_6^2d_4^2d_6 + c_6^2d_5^2d_6 + c_5^2d_2^2d_7 + c_6^2d_2^2d_7 + c_7^2d_2^2d_7 + c_5^2d_3^2d_7 + c_6^2d_3^2d_7 + c_7^2d_3^2d_7 + c_5^2d_4^2d_7 + c_6^2d_4^2d_7 + c_7^2d_4^2d_7 + c_6^2d_5^2d_7 + c_7^2d_5^2d_7 + c_7^2d_6^2d_7 + c_4^2(d_2^2 + d_3^2)(d_4 + d_5 + d_6 + d_7) + c_3^2d_2^2(d_3 + d_4 + d_5 + d_6 + d_7)) + c_1(c_4^2d_1^2d_4 + c_4^2d_2^2d_4 + c_4^2d_3^2d_4 + c_4^2d_1^2d_5 + c_5^2d_1^2d_5 + c_4^2d_2^2d_5 + c_5^2d_2^2d_5 + c_4^2d_3^2d_5 + c_5^2d_3^2d_5 + c_5^2d_4^2d_5 + c_4^2d_1^2d_6 + c_5^2d_1^2d_6 + c_6^2d_1^2d_6 + c_4^2d_2^2d_6 + c_5^2d_2^2d_6 + c_6^2d_2^2d_6 + c_4^2d_3^2d_6 + c_5^2d_3^2d_6 + c_6^2d_3^2d_6 + c_5^2d_4^2d_6 + c_6^2d_4^2d_6 + c_6^2d_5^2d_6 + c_4^2d_1^2d_7 + c_5^2d_1^2d_7 + c_6^2d_1^2d_7 + c_7^2d_1^2d_7 + c_4^2d_2^2d_7 + c_5^2d_2^2d_7 + c_6^2d_2^2d_7 + c_7^2d_2^2d_7 + c_4^2d_3^2d_7 + c_5^2d_3^2d_7 + c_6^2d_3^2d_7 + c_7^2d_3^2d_7 + c_5^2d_4^2d_7 + c_6^2d_4^2d_7 + c_7^2d_4^2d_7 + c_6^2d_5^2d_7 + c_7^2d_5^2d_7 + c_7^2d_6^2d_7 + c_3^2(d_1^2 + d_2^2)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2^2d_1^2(d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[40] = -\frac{1}{720} + \frac{1}{4}(c_4^2c_5d_1d_4^2 + c_4^2c_6d_1d_4^2 + c_4^2c_7d_1d_4^2 + c_4^2c_5d_2d_4^2 + c_4^2c_6d_2d_4^2 + c_4^2c_7d_2d_4^2 + c_4^2c_5d_3d_4^2 + c_4^2c_6d_3d_4^2 + c_4^2c_7d_3d_4^2 + c_4^2c_6d_1d_5^2 + c_5^2c_6d_1d_5^2 + c_4^2c_7d_1d_5^2 + c_5^2c_7d_1d_5^2 + c_4^2c_6d_2d_5^2 + c_5^2c_6d_2d_5^2 + c_4^2c_7d_2d_5^2 + c_5^2c_7d_2d_5^2 + c_4^2c_6d_3d_5^2 + c_5^2c_6d_3d_5^2 + c_4^2c_7d_3d_5^2 + c_5^2c_7d_3d_5^2 + c_4^2c_6d_1d_6^2 + c_5^2c_6d_1d_6^2 + c_6^2c_7d_1d_6^2 + c_4^2c_7d_2d_6^2 + c_5^2c_7d_2d_6^2 + c_6^2c_7d_2d_6^2 + c_4^2c_7d_3d_6^2 + c_5^2c_7d_3d_6^2 + c_6^2c_7d_3d_6^2 + c_5^2c_7d_4d_6^2 + c_6^2c_7d_4d_6^2 + c_6^2c_7d_5d_6^2 + c_2^2d_1(c_3d_2^2 + c_5d_2^2 + c_6d_2^2 + c_7d_2^2 + c_5d_3^2 + c_6d_3^2 + c_7d_3^2 + c_4(d_2^2 + d_3^2) + c_5d_4^2 + c_6d_4^2 + c_7d_4^2 + c_6d_5^2 + c_7d_5^2 + c_7d_6^2) + c_3^2(d_1 + d_2)(c_4d_3^2 + c_6d_3^2 + c_7d_3^2 + c_6d_4^2 + c_7d_4^2 + c_5(d_3^2 + d_4^2) + c_6d_5^2 + c_7d_5^2 + c_7d_6^2));$$

$$eq[41] = -\frac{1}{720} + \frac{1}{6}(c_3c_4d_3^3d_4 + c_3c_4d_3^3d_5 + c_3c_5d_3^3d_5 + c_3c_5d_4^3d_5 + c_4c_5d_4^3d_5 + c_3c_4d_3^3d_6 + c_3c_5d_3^3d_6 + c_3c_6d_3^3d_6 + c_3c_5d_4^3d_6 + c_4c_5d_4^3d_6 + c_3c_6d_4^3d_6 + c_4c_6d_4^3d_6 + c_3c_6d_5^3d_6 + c_4c_6d_5^3d_6 + c_5c_6d_5^3d_6 + c_3c_4d_3^3d_7 + c_3c_5d_3^3d_7 + c_3c_6d_3^3d_7 + c_3c_7d_3^3d_7 + c_3c_5d_4^3d_7 + c_4c_5d_4^3d_7 + c_3c_6d_4^3d_7 + c_4c_6d_4^3d_7 + c_3c_7d_4^3d_7 + c_4c_7d_4^3d_7 + c_3c_6d_5^3d_7 + c_4c_6d_5^3d_7 + c_5c_6d_5^3d_7 + c_3c_7d_5^3d_7 + c_4c_7d_5^3d_7 + c_5c_7d_5^3d_7 + c_3c_7d_6^3d_7 + c_4c_7d_6^3d_7 + c_5c_7d_6^3d_7 + c_6c_7d_6^3d_7 + c_2(c_5d_2^3d_5 + c_5d_3^3d_5 + c_5d_4^3d_5 + c_5d_2^3d_6 + c_6d_2^3d_6 + c_5d_3^3d_6 + c_6d_3^3d_6 + c_5d_4^3d_6 + c_6d_4^3d_6 + c_6d_5^3d_6 + c_5d_2^3d_7 + c_6d_2^3d_7 + c_7d_2^3d_7 + c_5d_3^3d_7 + c_6d_3^3d_7 + c_7d_3^3d_7 + c_5d_4^3d_7 + c_6d_4^3d_7 + c_7d_4^3d_7 + c_5d_5^3d_7 + c_6d_5^3d_7 + c_7d_5^3d_7 + c_5d_6^3d_7 + c_6d_6^3d_7 + c_7d_6^3d_7);$$

$$c_7d_3^3d_7+c_5d_4^3d_7+c_6d_4^3d_7+c_7d_4^3d_7+c_6d_5^3d_7+c_7d_5^3d_7+c_7d_6^3d_7+c_4(d_2^3+d_3^3)(d_4+d_5+d_6+d_7)+c_3d_2^3(d_3+d_4+d_5+d_6+d_7))+c_1(c_4d_1^3d_4+c_4d_2^3d_4+c_4d_3^3d_4+c_4d_1^3d_5+c_5d_1^3d_5+c_4d_2^3d_5+c_5d_2^3d_5+c_4d_3^3d_5+c_5d_3^3d_5+c_5d_4^3d_5+c_4d_1^3d_6+c_5d_1^3d_6+c_6d_1^3d_6+c_4d_2^3d_6+c_5d_2^3d_6+c_6d_2^3d_6+c_4d_3^3d_6+c_5d_3^3d_6+c_6d_3^3d_6+c_5d_4^3d_6+c_6d_4^3d_6+c_6d_5^3d_6+c_4d_1^3d_7+c_5d_1^3d_7+c_6d_1^3d_7+c_7d_1^3d_7+c_4d_2^3d_7+c_5d_2^3d_7+c_6d_2^3d_7+c_7d_2^3d_7+c_4d_3^3d_7+c_5d_3^3d_7+c_6d_3^3d_7+c_7d_3^3d_7+c_5d_4^3d_7+c_6d_4^3d_7+c_7d_4^3d_7+c_6d_5^3d_7+c_7d_5^3d_7+c_7d_6^3d_7+c_3(d_1^3+d_2^3)(d_3+d_4+d_5+d_6+d_7))+c_2d_1^3(d_2+d_3+d_4+d_5+d_6+d_7));$$

$$eq[42] = -\frac{1}{720} + \frac{1}{8}(c_4^3c_5d_1d_4+c_4^3c_6d_1d_4+c_4^3c_7d_1d_4+c_4^3c_5d_2d_4+c_4^3c_6d_2d_4+c_4^3c_7d_2d_4+c_4^3c_5d_3d_4+c_4^3c_6d_3d_4+c_4^3c_7d_3d_4+c_4^3c_6d_1d_5+c_5^3c_6d_1d_5+c_4^3c_7d_1d_5+c_5^3c_7d_1d_5+c_4^3c_6d_2d_5+c_5^3c_6d_2d_5+c_4^3c_7d_2d_5+c_5^3c_7d_2d_5+c_4^3c_6d_3d_5+c_5^3c_6d_3d_5+c_4^3c_7d_3d_5+c_5^3c_7d_3d_5+c_5^3c_6d_4d_5+c_5^3c_7d_4d_5+c_4^3c_7d_1d_6+c_5^3c_7d_1d_6+c_6^3c_7d_1d_6+c_4^3c_7d_2d_6+c_5^3c_7d_2d_6+c_6^3c_7d_2d_6+c_4^3c_7d_3d_6+c_5^3c_7d_3d_6+c_6^3c_7d_3d_6+c_5^3c_7d_4d_6+c_6^3c_7d_4d_6+c_6^3c_7d_5d_6+c_2^3d_1(c_3d_2+c_5d_2+c_6d_2+c_7d_2+c_5d_3+c_6d_3+c_7d_3+c_4(d_2+d_3)+c_5d_4+c_6d_4+c_7d_4+c_6d_5+c_7d_5+c_7d_6))+c_3^3(d_1+d_2)(c_4d_3+c_6d_3+c_7d_3+c_6d_4+c_7d_4+c_5(d_3+d_4)+c_6d_5+c_7d_5+c_7d_6));$$

$$eq[43] = -\frac{1}{720} + \frac{1}{4}(c_3^2c_4d_3d_4^2+c_3^2c_4d_3d_5^2+c_3^2c_5d_3d_5^2+c_3^2c_5d_4d_5^2+c_4^2c_5d_4d_5^2+c_3^2c_4d_3d_6^2+c_3^2c_5d_3d_6^2+c_3^2c_6d_3d_6^2+c_3^2c_5d_4d_6^2+c_4^2c_5d_4d_6^2+c_3^2c_6d_4d_6^2+c_4^2c_6d_4d_6^2+c_3^2c_6d_5d_6^2+c_4^2c_6d_5d_6^2+c_3^2c_4d_3d_7^2+c_3^2c_5d_3d_7^2+c_3^2c_6d_3d_7^2+c_3^2c_7d_3d_7^2+c_3^2c_5d_4d_7^2+c_4^2c_5d_4d_7^2+c_3^2c_6d_4d_7^2+c_4^2c_6d_4d_7^2+c_3^2c_7d_4d_7^2+c_4^2c_7d_4d_7^2+c_3^2c_6d_5d_7^2+c_4^2c_6d_5d_7^2+c_5^2c_6d_5d_7^2+c_3^2c_7d_5d_7^2+c_4^2c_7d_5d_7^2+c_5^2c_7d_5d_7^2+c_3^2c_7d_6d_7^2+c_4^2c_7d_6d_7^2+c_5^2c_7d_6d_7^2+c_6^2c_7d_6d_7^2+c_2^2(c_5d_2d_5^2+c_5d_3d_5^2+c_5d_4d_5^2+c_5d_2d_6^2+c_6d_2d_6^2+c_5d_3d_6^2+c_6d_3d_6^2+c_5d_4d_6^2+c_6d_4d_6^2+c_6d_5d_6^2+c_5d_2d_7^2+c_6d_2d_7^2+c_7d_2d_7^2+c_5d_3d_7^2+c_6d_3d_7^2+c_7d_3d_7^2+c_5d_4d_7^2+c_6d_4d_7^2+c_7d_4d_7^2+c_6d_5d_7^2+c_7d_5d_7^2+c_7d_6d_7^2+c_4(d_2+d_3)(d_4^2+d_5^2+d_6^2+d_7^2))+c_3d_2(d_3^2+d_4^2+d_5^2+d_6^2+d_7^2))+c_1^2(c_4d_1d_4^2+c_4d_2d_4^2+c_4d_3d_4^2+c_4d_1d_5^2+c_5d_1d_5^2+c_4d_2d_5^2+c_5d_2d_5^2+c_4d_3d_5^2+c_5d_3d_5^2+c_5d_4d_5^2+c_4d_1d_6^2+c_5d_1d_6^2+c_6d_1d_6^2+c_4d_2d_6^2+c_5d_2d_6^2+c_6d_2d_6^2+c_4d_3d_6^2+c_5d_3d_6^2+c_6d_3d_6^2+c_5d_4d_6^2+c_6d_4d_6^2+c_6d_5d_6^2+c_4d_1d_7^2+c_5d_1d_7^2+c_6d_1d_7^2+c_7d_1d_7^2+c_4d_2d_7^2+c_5d_2d_7^2+c_6d_2d_7^2+c_7d_2d_7^2+c_4d_3d_7^2+c_5d_3d_7^2+c_6d_3d_7^2+c_7d_3d_7^2+c_5d_4d_7^2+c_6d_4d_7^2+c_7d_4d_7^2+c_6d_5d_7^2+c_7d_5d_7^2+c_7d_6d_7^2+c_3(d_1+d_2)(d_3^2+d_4^2+d_5^2+d_6^2+d_7^2))+c_2d_1(d_2^2+d_3^2+d_4^2+d_5^2+d_6^2+d_7^2));$$

$$eq[44] = -\frac{1}{720} + \frac{1}{4}(c_4c_5^2d_1^2d_4+c_4c_6^2d_1^2d_4+c_4c_7^2d_1^2d_4+c_4c_5^2d_2^2d_4+c_4c_6^2d_2^2d_4+c_4c_7^2d_2^2d_4+c_4c_5^2d_3^2d_4+c_4c_6^2d_3^2d_4+c_4c_7^2d_3^2d_4+c_4c_6^2d_1^2d_5+c_5c_6^2d_1^2d_5+c_4c_7^2d_1^2d_5+c_5c_7^2d_1^2d_5+c_4c_6^2d_2^2d_5+c_5c_6^2d_2^2d_5+c_4c_7^2d_2^2d_5+c_5c_7^2d_2^2d_5+c_4c_6^2d_3^2d_5+c_5c_6^2d_3^2d_5+c_4c_7^2d_3^2d_5+c_5c_7^2d_3^2d_5+c_5c_6^2d_4^2d_5+c_5c_7^2d_4^2d_5+c_4c_7^2d_1^2d_6+c_5c_7^2d_1^2d_6+c_6c_7^2d_1^2d_6+c_4c_7^2d_2^2d_6+c_5c_7^2d_2^2d_6+c_6c_7^2d_2^2d_6+c_4c_7^2d_3^2d_6+c_5c_7^2d_3^2d_6+c_6c_7^2d_3^2d_6+c_5c_7^2d_4^2d_6+c_6c_7^2d_4^2d_6+c_6c_7^2d_5^2d_6+c_2d_1^2(c_3^2d_2+c_5^2d_2+c_6^2d_2+c_7^2d_2+c_5^2d_3+c_6^2d_3+c_7^2d_3+c_4^2(d_2+d_3)+c_5^2d_4+c_6^2d_4+c_7^2d_4+c_6^2d_5+c_7^2d_5+c_7^2d_6))+c_3(d_1^2+d_2^2)(c_4^2d_3+c_6^2d_3+c_7^2d_3+c_6^2d_4+c_7^2d_4+c_5^2(d_3+d_4)+c_6^2d_5+c_7^2d_5+c_7^2d_6));$$

$$eq[45] = -\frac{1}{720} + \frac{1}{4}(c_3^2c_4^2d_3d_4+c_3^2c_4^2d_3d_5+c_3^2c_5^2d_3d_5+c_3^2c_5^2d_4d_5+c_4^2c_5^2d_4d_5+c_3^2c_4^2d_3d_6+c_3^2c_5^2d_3d_6+c_3^2c_6^2d_3d_6+c_3^2c_5^2d_4d_6+c_4^2c_5^2d_4d_6+c_3^2c_6^2d_4d_6+c_4^2c_6^2d_4d_6+c_3^2c_6^2d_5d_6+c_4^2c_6^2d_5d_6+c_5^2c_6^2d_5d_6+c_3^2c_4^2d_3d_7+c_3^2c_5^2d_3d_7+c_3^2c_6^2d_3d_7+c_3^2c_7^2d_3d_7+c_3^2c_5^2d_4d_7+c_4^2c_5^2d_4d_7+c_3^2c_6^2d_4d_7+c_4^2c_6^2d_4d_7+c_3^2c_7^2d_4d_7+c_4^2c_7^2d_4d_7+c_3^2c_6^2d_5d_7+c_4^2c_6^2d_5d_7+c_5^2c_6^2d_5d_7+c_3^2c_7^2d_5d_7+c_4^2c_7^2d_5d_7+c_5^2c_7^2d_5d_7+c_3^2c_7^2d_6d_7+c_4^2c_7^2d_6d_7+c_5^2c_7^2d_6d_7+c_6^2c_7^2d_6d_7+c_2^2(c_5^2d_2d_5+c_5^2d_3d_5+c_5^2d_4d_5+c_5^2d_2d_6+c_6^2d_2d_6+c_5^2d_3d_6+c_6^2d_3d_6+c_5^2d_4d_6+c_6^2d_4d_6+c_6^2d_5d_6+c_5^2d_2d_7+c_6^2d_2d_7+c_7^2d_2d_7+c_5^2d_3d_7+c_6^2d_3d_7+$$

$$c_7^2 d_3 d_7 + c_5^2 d_4 d_7 + c_6^2 d_4 d_7 + c_7^2 d_4 d_7 + c_6^2 d_5 d_7 + c_7^2 d_5 d_7 + c_7^2 d_6 d_7 + c_4^2 (d_2 + d_3)(d_4 + d_5 + d_6 + d_7) + c_3^2 d_2 (d_3 + d_4 + d_5 + d_6 + d_7)) + c_1^2 (c_4^2 d_1 d_4 + c_4^2 d_2 d_4 + c_4^2 d_3 d_4 + c_4^2 d_1 d_5 + c_5^2 d_1 d_5 + c_4^2 d_2 d_5 + c_5^2 d_2 d_5 + c_4^2 d_3 d_5 + c_5^2 d_3 d_5 + c_5^2 d_4 d_5 + c_4^2 d_1 d_6 + c_5^2 d_1 d_6 + c_6^2 d_1 d_6 + c_4^2 d_2 d_6 + c_5^2 d_2 d_6 + c_6^2 d_2 d_6 + c_4^2 d_3 d_6 + c_5^2 d_3 d_6 + c_6^2 d_3 d_6 + c_5^2 d_4 d_6 + c_6^2 d_4 d_6 + c_6^2 d_5 d_6 + c_4^2 d_1 d_7 + c_5^2 d_1 d_7 + c_6^2 d_1 d_7 + c_7^2 d_1 d_7 + c_4^2 d_2 d_7 + c_5^2 d_2 d_7 + c_6^2 d_2 d_7 + c_7^2 d_2 d_7 + c_4^2 d_3 d_7 + c_5^2 d_3 d_7 + c_6^2 d_3 d_7 + c_7^2 d_3 d_7 + c_5^2 d_4 d_7 + c_6^2 d_4 d_7 + c_7^2 d_4 d_7 + c_6^2 d_5 d_7 + c_7^2 d_5 d_7 + c_7^2 d_6 d_7 + c_3^2 (d_1 + d_2)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2^2 d_1 (d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[46] = -\frac{1}{720} + \frac{1}{4} (c_4 c_5 d_1^2 d_4^2 + c_4 c_6 d_1^2 d_4^2 + c_4 c_7 d_1^2 d_4^2 + c_4 c_5 d_2^2 d_4^2 + c_4 c_6 d_2^2 d_4^2 + c_4 c_7 d_2^2 d_4^2 + c_4 c_5 d_3^2 d_4^2 + c_4 c_6 d_3^2 d_4^2 + c_4 c_7 d_3^2 d_4^2 + c_4 c_6 d_1^2 d_5^2 + c_5 c_6 d_1^2 d_5^2 + c_4 c_7 d_1^2 d_5^2 + c_5 c_7 d_1^2 d_5^2 + c_4 c_6 d_2^2 d_5^2 + c_5 c_6 d_2^2 d_5^2 + c_4 c_7 d_2^2 d_5^2 + c_5 c_7 d_2^2 d_5^2 + c_4 c_6 d_3^2 d_5^2 + c_5 c_6 d_3^2 d_5^2 + c_4 c_7 d_3^2 d_5^2 + c_5 c_7 d_3^2 d_5^2 + c_4 c_7 d_1^2 d_6^2 + c_5 c_7 d_1^2 d_6^2 + c_6 c_7 d_1^2 d_6^2 + c_4 c_7 d_2^2 d_6^2 + c_5 c_7 d_2^2 d_6^2 + c_6 c_7 d_2^2 d_6^2 + c_4 c_7 d_3^2 d_6^2 + c_5 c_7 d_3^2 d_6^2 + c_6 c_7 d_3^2 d_6^2 + c_5 c_7 d_4^2 d_6^2 + c_6 c_7 d_4^2 d_6^2 + c_6 c_7 d_5^2 d_6^2 + c_2 d_1^2 (c_3 d_2^2 + c_5 d_2^2 + c_6 d_2^2 + c_7 d_2^2 + c_5 d_3^2 + c_6 d_3^2 + c_7 d_3^2 + c_4 (d_2^2 + d_3^2) + c_5 d_4^2 + c_6 d_4^2 + c_7 d_4^2 + c_6 d_5^2 + c_7 d_5^2 + c_7 d_6^2) + c_3 (d_1^2 + d_2^2) (c_4 d_3^2 + c_6 d_3^2 + c_7 d_3^2 + c_6 d_4^2 + c_7 d_4^2 + c_5 (d_3^2 + d_4^2) + c_6 d_5^2 + c_7 d_5^2 + c_7 d_6^2));$$

$$eq[47] = -\frac{1}{720} + \frac{1}{4} (c_3^2 c_4 d_3^2 d_4 + c_3^2 c_4 d_3^2 d_5 + c_3^2 c_5 d_3^2 d_5 + c_3^2 c_5 d_4^2 d_5 + c_4^2 c_5 d_4^2 d_5 + c_3^2 c_4 d_3^2 d_6 + c_3^2 c_5 d_3^2 d_6 + c_3^2 c_6 d_3^2 d_6 + c_3^2 c_5 d_4^2 d_6 + c_4^2 c_5 d_4^2 d_6 + c_3^2 c_6 d_4^2 d_6 + c_4^2 c_6 d_4^2 d_6 + c_3^2 c_6 d_5^2 d_6 + c_4^2 c_6 d_5^2 d_6 + c_5^2 c_6 d_5^2 d_6 + c_3^2 c_4 d_3^2 d_7 + c_3^2 c_5 d_3^2 d_7 + c_3^2 c_6 d_3^2 d_7 + c_3^2 c_7 d_3^2 d_7 + c_3^2 c_5 d_4^2 d_7 + c_4^2 c_5 d_4^2 d_7 + c_3^2 c_6 d_4^2 d_7 + c_4^2 c_6 d_4^2 d_7 + c_3^2 c_7 d_4^2 d_7 + c_4^2 c_7 d_4^2 d_7 + c_3^2 c_6 d_5^2 d_7 + c_4^2 c_6 d_5^2 d_7 + c_5^2 c_6 d_5^2 d_7 + c_3^2 c_7 d_5^2 d_7 + c_4^2 c_7 d_5^2 d_7 + c_5^2 c_7 d_5^2 d_7 + c_3^2 c_7 d_6^2 d_7 + c_4^2 c_7 d_6^2 d_7 + c_5^2 c_7 d_6^2 d_7 + c_6^2 c_7 d_6^2 d_7 + c_2^2 (c_5 d_2^2 d_5 + c_5 d_3^2 d_5 + c_5 d_4^2 d_5 + c_5 d_2^2 d_6 + c_6 d_2^2 d_6 + c_5 d_3^2 d_6 + c_6 d_3^2 d_6 + c_5 d_4^2 d_6 + c_6 d_4^2 d_6 + c_5 d_2^2 d_7 + c_6 d_2^2 d_7 + c_7 d_2^2 d_7 + c_5 d_3^2 d_7 + c_6 d_3^2 d_7 + c_7 d_3^2 d_7 + c_5 d_4^2 d_7 + c_6 d_4^2 d_7 + c_7 d_4^2 d_7 + c_6 d_5^2 d_7 + c_7 d_5^2 d_7 + c_7 d_6^2 d_7 + c_4 (d_2^2 + d_3^2) (d_4 + d_5 + d_6 + d_7) + c_3 d_2^2 (d_3 + d_4 + d_5 + d_6 + d_7)) + c_1^2 (c_4 d_1^2 d_4 + c_4 d_2^2 d_4 + c_4 d_3^2 d_4 + c_4 d_1^2 d_5 + c_5 d_1^2 d_5 + c_4 d_2^2 d_5 + c_5 d_2^2 d_5 + c_4 d_3^2 d_5 + c_5 d_3^2 d_5 + c_5 d_4^2 d_5 + c_4 d_1^2 d_6 + c_5 d_1^2 d_6 + c_6 d_1^2 d_6 + c_4 d_2^2 d_6 + c_5 d_2^2 d_6 + c_6 d_2^2 d_6 + c_4 d_3^2 d_6 + c_5 d_3^2 d_6 + c_6 d_3^2 d_6 + c_5 d_4^2 d_6 + c_6 d_4^2 d_6 + c_6 d_5^2 d_6 + c_4 d_1^2 d_7 + c_5 d_1^2 d_7 + c_6 d_1^2 d_7 + c_7 d_1^2 d_7 + c_4 d_2^2 d_7 + c_5 d_2^2 d_7 + c_6 d_2^2 d_7 + c_7 d_2^2 d_7 + c_4 d_3^2 d_7 + c_5 d_3^2 d_7 + c_6 d_3^2 d_7 + c_7 d_3^2 d_7 + c_5 d_4^2 d_7 + c_6 d_4^2 d_7 + c_7 d_4^2 d_7 + c_6 d_5^2 d_7 + c_7 d_5^2 d_7 + c_7 d_6^2 d_7 + c_3 (d_1^2 + d_2^2) (d_3 + d_4 + d_5 + d_6 + d_7) + c_2 d_1^2 (d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[48] = -\frac{1}{720} + \frac{1}{4} (c_4^2 c_5 d_1^2 d_4 + c_4^2 c_6 d_1^2 d_4 + c_4^2 c_7 d_1^2 d_4 + c_4^2 c_5 d_2^2 d_4 + c_4^2 c_6 d_2^2 d_4 + c_4^2 c_7 d_2^2 d_4 + c_4^2 c_5 d_3^2 d_4 + c_4^2 c_6 d_3^2 d_4 + c_4^2 c_7 d_3^2 d_4 + c_4^2 c_6 d_1^2 d_5 + c_5^2 c_6 d_1^2 d_5 + c_4^2 c_7 d_1^2 d_5 + c_5^2 c_7 d_1^2 d_5 + c_4^2 c_6 d_2^2 d_5 + c_5^2 c_6 d_2^2 d_5 + c_4^2 c_7 d_2^2 d_5 + c_5^2 c_7 d_2^2 d_5 + c_4^2 c_6 d_3^2 d_5 + c_5^2 c_6 d_3^2 d_5 + c_4^2 c_7 d_3^2 d_5 + c_5^2 c_7 d_3^2 d_5 + c_5^2 c_6 d_4^2 d_5 + c_5^2 c_7 d_4^2 d_5 + c_4^2 c_7 d_1^2 d_6 + c_5^2 c_7 d_1^2 d_6 + c_6^2 c_7 d_1^2 d_6 + c_4^2 c_7 d_2^2 d_6 + c_5^2 c_7 d_2^2 d_6 + c_6^2 c_7 d_2^2 d_6 + c_4^2 c_7 d_3^2 d_6 + c_5^2 c_7 d_3^2 d_6 + c_6^2 c_7 d_3^2 d_6 + c_5^2 c_7 d_4^2 d_6 + c_6^2 c_7 d_4^2 d_6 + c_6^2 c_7 d_5^2 d_6 + c_2^2 d_1^2 (c_3 d_2 + c_5 d_2 + c_6 d_2 + c_7 d_2 + c_5 d_3 + c_6 d_3 + c_7 d_3 + c_4 (d_2 + d_3) + c_5 d_4 + c_6 d_4 + c_7 d_4 + c_6 d_5 + c_7 d_5 + c_7 d_6) + c_3^2 (d_1^2 + d_2^2) (c_4 d_3 + c_6 d_3 + c_7 d_3 + c_6 d_4 + c_7 d_4 + c_5 (d_3 + d_4) + c_6 d_5 + c_7 d_5 + c_7 d_6));$$

$$eq[49] = -\frac{1}{720} + \frac{1}{6} (c_3^3 c_4 d_3 d_4 + c_3^3 c_4 d_3 d_5 + c_3^3 c_5 d_3 d_5 + c_3^3 c_5 d_4 d_5 + c_4^3 c_5 d_4 d_5 + c_3^3 c_4 d_3 d_6 + c_3^3 c_5 d_3 d_6 + c_3^3 c_6 d_3 d_6 + c_3^3 c_5 d_4 d_6 + c_4^3 c_5 d_4 d_6 + c_3^3 c_6 d_4 d_6 + c_4^3 c_6 d_4 d_6 + c_3^3 c_6 d_5 d_6 + c_4^3 c_6 d_5 d_6 + c_5^3 c_6 d_5 d_6 + c_3^3 c_4 d_3 d_7 + c_3^3 c_5 d_3 d_7 + c_3^3 c_6 d_3 d_7 + c_3^3 c_7 d_3 d_7 + c_3^3 c_5 d_4 d_7 + c_4^3 c_5 d_4 d_7 + c_3^3 c_6 d_4 d_7 + c_4^3 c_6 d_4 d_7 + c_3^3 c_7 d_4 d_7 + c_4^3 c_7 d_4 d_7 + c_3^3 c_6 d_5 d_7 + c_4^3 c_6 d_5 d_7 + c_5^3 c_6 d_5 d_7 + c_3^3 c_7 d_5 d_7 + c_4^3 c_7 d_5 d_7 + c_5^3 c_7 d_5 d_7 + c_3^3 c_7 d_6 d_7 + c_4^3 c_7 d_6 d_7 + c_5^3 c_7 d_6 d_7 + c_6^3 c_7 d_6 d_7 + c_2^3 (c_5 d_2 d_5 + c_5 d_3 d_5 + c_5 d_4 d_5 + c_5 d_2 d_6 + c_6 d_2 d_6 + c_5 d_3 d_6 + c_6 d_3 d_6 + c_5 d_4 d_6 + c_6 d_4 d_6 + c_6 d_5 d_6 + c_5 d_2 d_7 + c_6 d_2 d_7 + c_7 d_2 d_7 + c_5 d_3 d_7 + c_6 d_3 d_7 + c_7 d_3 d_7 + c_5 d_4 d_7 +$$

$$c_6d_4d_7 + c_7d_4d_7 + c_6d_5d_7 + c_7d_5d_7 + c_7d_6d_7 + c_4(d_2 + d_3)(d_4 + d_5 + d_6 + d_7) + c_3d_2(d_3 + d_4 + d_5 + d_6 + d_7) + c_1^3(c_4d_1d_4 + c_4d_2d_4 + c_4d_3d_4 + c_4d_1d_5 + c_5d_1d_5 + c_4d_2d_5 + c_5d_2d_5 + c_4d_3d_5 + c_5d_3d_5 + c_5d_4d_5 + c_4d_1d_6 + c_5d_1d_6 + c_6d_1d_6 + c_4d_2d_6 + c_5d_2d_6 + c_6d_2d_6 + c_4d_3d_6 + c_5d_3d_6 + c_6d_3d_6 + c_5d_4d_6 + c_6d_4d_6 + c_6d_5d_6 + c_4d_1d_7 + c_5d_1d_7 + c_6d_1d_7 + c_7d_1d_7 + c_4d_2d_7 + c_5d_2d_7 + c_6d_2d_7 + c_7d_2d_7 + c_4d_3d_7 + c_5d_3d_7 + c_6d_3d_7 + c_7d_3d_7 + c_5d_4d_7 + c_6d_4d_7 + c_7d_4d_7 + c_6d_5d_7 + c_7d_5d_7 + c_7d_6d_7 + c_3(d_1 + d_2)(d_3 + d_4 + d_5 + d_6 + d_7) + c_2d_1(d_2 + d_3 + d_4 + d_5 + d_6 + d_7));$$

$$eq[50] = -\frac{1}{720} + \frac{1}{6}(c_4c_5d_1^3d_4 + c_4c_6d_1^3d_4 + c_4c_7d_1^3d_4 + c_4c_5d_2^3d_4 + c_4c_6d_2^3d_4 + c_4c_7d_2^3d_4 + c_4c_5d_3^3d_4 + c_4c_6d_3^3d_4 + c_4c_7d_3^3d_4 + c_4c_6d_1^3d_5 + c_5c_6d_1^3d_5 + c_4c_7d_1^3d_5 + c_5c_7d_1^3d_5 + c_4c_6d_2^3d_5 + c_5c_6d_2^3d_5 + c_4c_7d_2^3d_5 + c_5c_7d_2^3d_5 + c_4c_6d_3^3d_5 + c_5c_6d_3^3d_5 + c_4c_7d_3^3d_5 + c_5c_7d_3^3d_5 + c_5c_6d_4^3d_5 + c_5c_7d_4^3d_5 + c_4c_7d_1^3d_6 + c_5c_7d_1^3d_6 + c_6c_7d_1^3d_6 + c_4c_7d_2^3d_6 + c_5c_7d_2^3d_6 + c_6c_7d_2^3d_6 + c_4c_7d_3^3d_6 + c_5c_7d_3^3d_6 + c_6c_7d_3^3d_6 + c_5c_7d_4^3d_6 + c_6c_7d_4^3d_6 + c_6c_7d_5^3d_6 + c_2d_1^3(c_3d_2 + c_5d_2 + c_6d_2 + c_7d_2 + c_5d_3 + c_6d_3 + c_7d_3 + c_4(d_2 + d_3) + c_5d_4 + c_6d_4 + c_7d_4 + c_6d_5 + c_7d_5 + c_7d_6) + c_3(d_1^3 + d_2^3)(c_4d_3 + c_6d_3 + c_7d_3 + c_6d_4 + c_7d_4 + c_5(d_3 + d_4) + c_6d_5 + c_7d_5 + c_7d_6));$$

$$eq[51] = -\frac{1}{720} + \frac{1}{2}(c_3c_4c_5^2d_3d_4 + c_3c_4c_6^2d_3d_4 + c_3c_4c_7^2d_3d_4 + c_3c_4c_6^2d_3d_5 + c_3c_5c_6^2d_3d_5 + c_3c_4c_7^2d_3d_5 + c_3c_5c_7^2d_3d_5 + c_3c_6c_7^2d_3d_5 + c_3c_4c_6^2d_4d_5 + c_3c_5c_6^2d_4d_5 + c_3c_5c_7^2d_4d_5 + c_3c_4c_7^2d_4d_5 + c_3c_4c_6^2d_3d_6 + c_3c_5c_7^2d_3d_6 + c_3c_6c_7^2d_3d_6 + c_3c_5c_7^2d_4d_6 + c_4c_5c_7^2d_4d_6 + c_3c_6c_7^2d_4d_6 + c_4c_6c_7^2d_4d_6 + c_3c_6c_7^2d_5d_6 + c_4c_6c_7^2d_5d_6 + c_5c_6c_7^2d_5d_6 + c_1(c_4c_5^2d_1d_4 + c_4c_6^2d_1d_4 + c_4c_7^2d_1d_4 + c_4c_5^2d_2d_4 + c_4c_6^2d_2d_4 + c_4c_7^2d_2d_4 + c_4c_5^2d_3d_4 + c_4c_6^2d_3d_4 + c_4c_7^2d_3d_4 + c_4c_6^2d_1d_5 + c_5c_6^2d_1d_5 + c_4c_7^2d_1d_5 + c_5c_7^2d_1d_5 + c_4c_6^2d_2d_5 + c_5c_6^2d_2d_5 + c_4c_7^2d_2d_5 + c_5c_7^2d_2d_5 + c_4c_6^2d_3d_5 + c_5c_6^2d_3d_5 + c_4c_7^2d_3d_5 + c_5c_7^2d_3d_5 + c_5c_6^2d_4d_5 + c_5c_7^2d_4d_5 + c_4c_7^2d_1d_6 + c_5c_7^2d_1d_6 + c_6c_7^2d_1d_6 + c_4c_7^2d_2d_6 + c_5c_7^2d_2d_6 + c_6c_7^2d_2d_6 + c_4c_7^2d_3d_6 + c_5c_7^2d_3d_6 + c_6c_7^2d_3d_6 + c_5c_7^2d_4d_6 + c_6c_7^2d_4d_6 + c_6c_7^2d_5d_6 + c_2d_1(c_3^2d_2 + c_5^2d_2 + c_6^2d_2 + c_7^2d_2 + c_5^2d_3 + c_6^2d_3 + c_7^2d_3 + c_4^2(d_2 + d_3) + c_5^2d_4 + c_6^2d_4 + c_7^2d_4 + c_6^2d_5 + c_7^2d_5 + c_7^2d_6) + c_3(d_1 + d_2)(c_4^2d_3 + c_6^2d_3 + c_7^2d_3 + c_6^2d_4 + c_7^2d_4 + c_5^2(d_3 + d_4) + c_6^2d_5 + c_7^2d_5 + c_7^2d_6)) + c_2(c_5c_6^2d_2d_5 + c_5c_7^2d_2d_5 + c_5c_6^2d_3d_5 + c_5c_7^2d_3d_5 + c_5c_6^2d_4d_5 + c_5c_7^2d_4d_5 + c_5c_7^2d_2d_6 + c_6c_7^2d_2d_6 + c_5c_7^2d_3d_6 + c_6c_7^2d_3d_6 + c_5c_7^2d_4d_6 + c_6c_7^2d_4d_6 + c_6c_7^2d_5d_6 + c_3d_2(c_4^2d_3 + c_6^2d_3 + c_7^2d_3 + c_6^2d_4 + c_7^2d_4 + c_5^2(d_3 + d_4) + c_6^2d_5 + c_7^2d_5 + c_7^2d_6) + c_4(d_2 + d_3)(c_5^2d_4 + c_7^2d_4 + c_7^2d_5 + c_6^2(d_4 + d_5) + c_7^2d_6));$$

$$eq[52] = -\frac{1}{720} + \frac{1}{2}(c_4c_5d_1d_4d_5^2 + c_4c_5d_2d_4d_5^2 + c_4c_5d_3d_4d_5^2 + c_4c_5d_1d_4d_6^2 + c_4c_6d_1d_4d_6^2 + c_4c_5d_2d_4d_6^2 + c_4c_6d_2d_4d_6^2 + c_4c_5d_3d_4d_6^2 + c_4c_6d_3d_4d_6^2 + c_4c_6d_1d_5d_6^2 + c_5c_6d_1d_5d_6^2 + c_4c_6d_2d_5d_6^2 + c_5c_6d_2d_5d_6^2 + c_4c_6d_3d_5d_6^2 + c_5c_6d_3d_5d_6^2 + c_4c_5d_1d_4d_7^2 + c_4c_6d_1d_4d_7^2 + c_4c_5d_2d_4d_7^2 + c_4c_6d_2d_4d_7^2 + c_4c_7d_2d_4d_7^2 + c_4c_5d_3d_4d_7^2 + c_4c_6d_3d_4d_7^2 + c_4c_7d_3d_4d_7^2 + c_4c_6d_1d_5d_7^2 + c_5c_6d_1d_5d_7^2 + c_4c_7d_1d_5d_7^2 + c_5c_7d_1d_5d_7^2 + c_4c_6d_2d_5d_7^2 + c_5c_6d_2d_5d_7^2 + c_4c_7d_2d_5d_7^2 + c_5c_7d_2d_5d_7^2 + c_4c_6d_3d_5d_7^2 + c_5c_6d_3d_5d_7^2 + c_4c_7d_3d_5d_7^2 + c_5c_7d_3d_5d_7^2 + c_4c_7d_1d_6d_7^2 + c_5c_7d_1d_6d_7^2 + c_6c_7d_1d_6d_7^2 + c_4c_7d_2d_6d_7^2 + c_5c_7d_2d_6d_7^2 + c_6c_7d_2d_6d_7^2 + c_4c_7d_3d_6d_7^2 + c_5c_7d_3d_6d_7^2 + c_6c_7d_3d_6d_7^2 + c_5c_7d_4d_6d_7^2 + c_6c_7d_4d_6d_7^2 + c_6c_7d_5d_6d_7^2 + c_3(d_1 + d_2)(c_6d_3d_6^2 + c_6d_4d_6^2 + c_6d_5d_6^2 + c_6d_3d_7^2 + c_7d_3d_7^2 + c_6d_4d_7^2 + c_7d_4d_7^2 + c_6d_5d_7^2 + c_7d_5d_7^2 + c_7d_6d_7^2 + c_5(d_3 + d_4)(d_5^2 + d_6^2 + d_7^2) + c_4d_3(d_4^2 + d_5^2 + d_6^2 + d_7^2)) + c_2d_1(c_5d_2d_5^2 + c_5d_3d_5^2 + c_5d_4d_5^2 + c_5d_2d_6^2 + c_6d_2d_6^2 + c_5d_3d_6^2 + c_6d_3d_6^2 + c_5d_4d_6^2 + c_6d_4d_6^2 + c_6d_5d_6^2 + c_5d_2d_7^2 + c_6d_2d_7^2 + c_7d_2d_7^2 + c_5d_3d_7^2 + c_6d_3d_7^2 + c_7d_3d_7^2 + c_5d_4d_7^2 + c_6d_4d_7^2 + c_7d_4d_7^2 + c_6d_5d_7^2 + c_7d_5d_7^2 + c_7d_6d_7^2 + c_4(d_2 + d_3)(d_4^2 + d_5^2 + d_6^2 + d_7^2) + c_3d_2(d_3^2 + d_4^2 + d_5^2 + d_6^2 + d_7^2));$$

$$eq[53] = -\frac{1}{720} + \frac{1}{2}(c_3c_4c_5d_3d_4^2 + c_3c_4c_6d_3d_4^2 + c_3c_4c_7d_3d_4^2 + c_3c_4c_6d_3d_5^2 + c_3c_5c_6d_3d_5^2 +$$

$$\begin{aligned}
& c_3c_4c_7d_3d_5^2 + c_3c_5c_7d_3d_5^2 + c_3c_5c_6d_4d_5^2 + c_4c_5c_6d_4d_5^2 + c_3c_5c_7d_4d_5^2 + c_4c_5c_7d_4d_5^2 + \\
& c_3c_4c_7d_3d_6^2 + c_3c_5c_7d_3d_6^2 + c_3c_6c_7d_3d_6^2 + c_3c_5c_7d_4d_6^2 + c_4c_5c_7d_4d_6^2 + c_3c_6c_7d_4d_6^2 + \\
& c_4c_6c_7d_4d_6^2 + c_3c_6c_7d_5d_6^2 + c_4c_6c_7d_5d_6^2 + c_5c_6c_7d_5d_6^2 + c_1(c_4c_5d_1d_4^2 + c_4c_6d_1d_4^2 + \\
& c_4c_7d_1d_4^2 + c_4c_5d_2d_4^2 + c_4c_6d_2d_4^2 + c_4c_7d_2d_4^2 + c_4c_5d_3d_4^2 + c_4c_6d_3d_4^2 + c_4c_7d_3d_4^2 + \\
& c_4c_6d_1d_5^2 + c_5c_6d_1d_5^2 + c_4c_7d_1d_5^2 + c_5c_7d_1d_5^2 + c_4c_6d_2d_5^2 + c_5c_6d_2d_5^2 + c_4c_7d_2d_5^2 + \\
& c_5c_7d_2d_5^2 + c_4c_6d_3d_5^2 + c_5c_6d_3d_5^2 + c_4c_7d_3d_5^2 + c_5c_7d_3d_5^2 + c_5c_6d_4d_5^2 + c_5c_7d_4d_5^2 + \\
& c_4c_7d_1d_6^2 + c_5c_7d_1d_6^2 + c_6c_7d_1d_6^2 + c_4c_7d_2d_6^2 + c_5c_7d_2d_6^2 + c_6c_7d_2d_6^2 + c_4c_7d_3d_6^2 + \\
& c_5c_7d_3d_6^2 + c_6c_7d_3d_6^2 + c_5c_7d_4d_6^2 + c_6c_7d_4d_6^2 + c_6c_7d_5d_6^2 + c_2d_1(c_3d_2^2 + c_5d_2^2 + c_6d_2^2 + \\
& c_7d_2^2 + c_5d_3^2 + c_6d_3^2 + c_7d_3^2 + c_4(d_2^2 + d_3^2) + c_5d_4^2 + c_6d_4^2 + c_7d_4^2 + c_6d_5^2 + c_7d_5^2 + \\
& c_7d_6^2) + c_3(d_1 + d_2)(c_4d_3^2 + c_6d_3^2 + c_7d_3^2 + c_6d_4^2 + c_7d_4^2 + c_5(d_3^2 + d_4^2) + c_6d_5^2 + c_7d_5^2 + \\
& c_7d_6^2) + c_2(c_5c_6d_2d_5^2 + c_5c_7d_2d_5^2 + c_5c_6d_3d_5^2 + c_5c_7d_3d_5^2 + c_5c_6d_4d_5^2 + c_5c_7d_4d_5^2 + \\
& c_5c_7d_2d_6^2 + c_6c_7d_2d_6^2 + c_5c_7d_3d_6^2 + c_6c_7d_3d_6^2 + c_5c_7d_4d_6^2 + c_6c_7d_4d_6^2 + c_6c_7d_5d_6^2 + \\
& c_3d_2(c_4d_3^2 + c_6d_3^2 + c_7d_3^2 + c_6d_4^2 + c_7d_4^2 + c_5(d_3^2 + d_4^2) + c_6d_5^2 + c_7d_5^2 + c_7d_6^2) + \\
& c_4(d_2 + d_3)(c_5d_4^2 + c_7d_4^2 + c_7d_5^2 + c_6(d_4^2 + d_5^2) + c_7d_6^2));
\end{aligned}$$

$$\begin{aligned}
& eq[54] = -\frac{1}{720} + \frac{1}{2}(c_4c_5^2d_1d_4d_5 + c_4c_5^2d_2d_4d_5 + c_4c_5^2d_3d_4d_5 + c_4c_5^2d_1d_4d_6 + c_4c_6^2d_1d_4d_6 + \\
& c_4c_5^2d_2d_4d_6 + c_4c_6^2d_2d_4d_6 + c_4c_5^2d_3d_4d_6 + c_4c_6^2d_3d_4d_6 + c_4c_6^2d_1d_5d_6 + c_5c_6^2d_1d_5d_6 + \\
& c_4c_6^2d_2d_5d_6 + c_5c_6^2d_2d_5d_6 + c_4c_6^2d_3d_5d_6 + c_5c_6^2d_3d_5d_6 + c_5c_6^2d_4d_5d_6 + c_4c_5^2d_1d_4d_7 + \\
& c_4c_6^2d_1d_4d_7 + c_4c_7^2d_1d_4d_7 + c_4c_5^2d_2d_4d_7 + c_4c_6^2d_2d_4d_7 + c_4c_7^2d_2d_4d_7 + c_4c_5^2d_3d_4d_7 + \\
& c_4c_6^2d_3d_4d_7 + c_4c_7^2d_3d_4d_7 + c_4c_6^2d_1d_5d_7 + c_5c_6^2d_1d_5d_7 + c_4c_7^2d_1d_5d_7 + c_5c_7^2d_1d_5d_7 + \\
& c_4c_6^2d_2d_5d_7 + c_5c_6^2d_2d_5d_7 + c_4c_7^2d_2d_5d_7 + c_5c_7^2d_2d_5d_7 + c_4c_6^2d_3d_5d_7 + c_5c_6^2d_3d_5d_7 + \\
& c_4c_7^2d_3d_5d_7 + c_5c_7^2d_3d_5d_7 + c_5c_6^2d_4d_5d_7 + c_5c_7^2d_4d_5d_7 + c_4c_7^2d_1d_6d_7 + c_5c_7^2d_1d_6d_7 + \\
& c_6c_7^2d_1d_6d_7 + c_4c_7^2d_2d_6d_7 + c_5c_7^2d_2d_6d_7 + c_6c_7^2d_2d_6d_7 + c_4c_7^2d_3d_6d_7 + c_5c_7^2d_3d_6d_7 + \\
& c_6c_7^2d_3d_6d_7 + c_5c_7^2d_4d_6d_7 + c_6c_7^2d_4d_6d_7 + c_6c_7^2d_5d_6d_7 + c_3(d_1 + d_2)(c_6^2d_3d_6 + c_6^2d_4d_6 + \\
& c_6^2d_5d_6 + c_6^2d_3d_7 + c_7^2d_3d_7 + c_6^2d_4d_7 + c_7^2d_4d_7 + c_6^2d_5d_7 + c_7^2d_5d_7 + c_7^2d_6d_7 + c_5^2(d_3 + \\
& d_4)(d_5 + d_6 + d_7) + c_4^2d_3(d_4 + d_5 + d_6 + d_7)) + c_2d_1(c_5^2d_2d_5 + c_5^2d_3d_5 + c_5^2d_4d_5 + \\
& c_5^2d_2d_6 + c_6^2d_2d_6 + c_5^2d_3d_6 + c_6^2d_3d_6 + c_5^2d_4d_6 + c_6^2d_4d_6 + c_6^2d_5d_6 + c_5^2d_2d_7 + c_6^2d_2d_7 + \\
& c_7^2d_2d_7 + c_5^2d_3d_7 + c_6^2d_3d_7 + c_7^2d_3d_7 + c_5^2d_4d_7 + c_6^2d_4d_7 + c_7^2d_4d_7 + c_6^2d_5d_7 + c_7^2d_5d_7 + \\
& c_7^2d_6d_7 + c_4^2(d_2 + d_3)(d_4 + d_5 + d_6 + d_7) + c_3^2d_2(d_3 + d_4 + d_5 + d_6 + d_7));
\end{aligned}$$

$$\begin{aligned}
& eq[55] = -\frac{1}{720} + \frac{1}{2}(c_3c_4^2c_5d_3d_4 + c_3c_4^2c_6d_3d_4 + c_3c_4^2c_7d_3d_4 + c_3c_4^2c_6d_3d_5 + c_3c_5^2c_6d_3d_5 + \\
& c_3c_4^2c_7d_3d_5 + c_3c_5^2c_7d_3d_5 + c_3c_5^2c_6d_4d_5 + c_4c_5^2c_6d_4d_5 + c_3c_5^2c_7d_4d_5 + c_4c_5^2c_7d_4d_5 + \\
& c_3c_4^2c_7d_3d_6 + c_3c_5^2c_7d_3d_6 + c_3c_6^2c_7d_3d_6 + c_3c_5^2c_7d_4d_6 + c_4c_5^2c_7d_4d_6 + c_3c_6^2c_7d_4d_6 + \\
& c_4c_6^2c_7d_4d_6 + c_3c_6^2c_7d_5d_6 + c_4c_6^2c_7d_5d_6 + c_5c_6^2c_7d_5d_6 + c_1(c_4^2c_5d_1d_4 + c_4^2c_6d_1d_4 + \\
& c_4^2c_7d_1d_4 + c_4^2c_5d_2d_4 + c_4^2c_6d_2d_4 + c_4^2c_7d_2d_4 + c_4^2c_5d_3d_4 + c_4^2c_6d_3d_4 + c_4^2c_7d_3d_4 + \\
& c_4^2c_6d_1d_5 + c_5^2c_6d_1d_5 + c_4^2c_7d_1d_5 + c_5^2c_7d_1d_5 + c_4^2c_6d_2d_5 + c_5^2c_6d_2d_5 + c_4^2c_7d_2d_5 + \\
& c_5^2c_7d_2d_5 + c_4^2c_6d_3d_5 + c_5^2c_6d_3d_5 + c_4^2c_7d_3d_5 + c_5^2c_7d_3d_5 + c_5^2c_6d_4d_5 + c_5^2c_7d_4d_5 + \\
& c_4^2c_7d_1d_6 + c_5^2c_7d_1d_6 + c_6^2c_7d_1d_6 + c_4^2c_7d_2d_6 + c_5^2c_7d_2d_6 + c_6^2c_7d_2d_6 + c_4^2c_7d_3d_6 + \\
& c_5^2c_7d_3d_6 + c_6^2c_7d_3d_6 + c_5^2c_7d_4d_6 + c_6^2c_7d_4d_6 + c_6^2c_7d_5d_6 + c_2^2d_1(c_3d_2 + c_5d_2 + c_6d_2 + \\
& c_7d_2 + c_5d_3 + c_6d_3 + c_7d_3 + c_4(d_2 + d_3) + c_5d_4 + c_6d_4 + c_7d_4 + c_6d_5 + c_7d_5 + c_7d_6) + \\
& c_3^2(d_1 + d_2)(c_4d_3 + c_6d_3 + c_7d_3 + c_6d_4 + c_7d_4 + c_5(d_3 + d_4) + c_6d_5 + c_7d_5 + c_7d_6) + \\
& c_2(c_5^2c_6d_2d_5 + c_5^2c_7d_2d_5 + c_5^2c_6d_3d_5 + c_5^2c_7d_3d_5 + c_5^2c_6d_4d_5 + c_5^2c_7d_4d_5 + c_5^2c_7d_2d_6 + \\
& c_6^2c_7d_2d_6 + c_5^2c_7d_3d_6 + c_6^2c_7d_3d_6 + c_5^2c_7d_4d_6 + c_6^2c_7d_4d_6 + c_6^2c_7d_5d_6 + c_3^2d_2(c_4d_3 + \\
& c_6d_3 + c_7d_3 + c_6d_4 + c_7d_4 + c_5(d_3 + d_4) + c_6d_5 + c_7d_5 + c_7d_6) + c_4^2(d_2 + d_3)(c_5d_4 + \\
& c_7d_4 + c_7d_5 + c_6(d_4 + d_5) + c_7d_6));
\end{aligned}$$

$$eq[56] = -\frac{1}{720} + \frac{1}{2}(c_4c_5d_1d_4^2d_5 + c_4c_5d_2d_4^2d_5 + c_4c_5d_3d_4^2d_5 + c_4c_5d_1d_4^2d_6 + c_4c_6d_1d_4^2d_6 +$$

$$\begin{aligned}
& c_4c_5d_2d_4^2d_6 + c_4c_6d_2d_4^2d_6 + c_4c_5d_3d_4^2d_6 + c_4c_6d_3d_4^2d_6 + c_4c_6d_1d_5^2d_6 + c_5c_6d_1d_5^2d_6 + \\
& c_4c_6d_2d_5^2d_6 + c_5c_6d_2d_5^2d_6 + c_4c_6d_3d_5^2d_6 + c_5c_6d_3d_5^2d_6 + c_5c_6d_4d_5^2d_6 + c_4c_5d_1d_4^2d_7 + \\
& c_4c_6d_1d_4^2d_7 + c_4c_7d_1d_4^2d_7 + c_4c_5d_2d_4^2d_7 + c_4c_6d_2d_4^2d_7 + c_4c_7d_2d_4^2d_7 + c_4c_5d_3d_4^2d_7 + \\
& c_4c_6d_3d_4^2d_7 + c_4c_7d_3d_4^2d_7 + c_4c_6d_1d_5^2d_7 + c_5c_6d_1d_5^2d_7 + c_4c_7d_1d_5^2d_7 + c_5c_7d_1d_5^2d_7 + \\
& c_4c_6d_2d_5^2d_7 + c_5c_6d_2d_5^2d_7 + c_4c_7d_2d_5^2d_7 + c_5c_7d_2d_5^2d_7 + c_4c_6d_3d_5^2d_7 + c_5c_6d_3d_5^2d_7 + \\
& c_4c_7d_3d_5^2d_7 + c_5c_7d_3d_5^2d_7 + c_5c_6d_4d_5^2d_7 + c_5c_7d_4d_5^2d_7 + c_4c_7d_1d_6^2d_7 + c_5c_7d_1d_6^2d_7 + \\
& c_6c_7d_1d_6^2d_7 + c_4c_7d_2d_6^2d_7 + c_5c_7d_2d_6^2d_7 + c_6c_7d_2d_6^2d_7 + c_4c_7d_3d_6^2d_7 + c_5c_7d_3d_6^2d_7 + \\
& c_6c_7d_3d_6^2d_7 + c_5c_7d_4d_6^2d_7 + c_6c_7d_4d_6^2d_7 + c_6c_7d_5d_6^2d_7 + c_3(d_1 + d_2)(c_6d_3^2d_6 + c_6d_4^2d_6 + \\
& c_6d_5^2d_6 + c_6d_3^2d_7 + c_7d_3^2d_7 + c_6d_4^2d_7 + c_7d_4^2d_7 + c_6d_5^2d_7 + c_7d_5^2d_7 + c_7d_6^2d_7 + c_5(d_3^2 + \\
& d_4^2)(d_5 + d_6 + d_7) + c_4d_3^2(d_4 + d_5 + d_6 + d_7)) + c_2d_1(c_5d_2^2d_5 + c_5d_3^2d_5 + c_5d_4^2d_5 + \\
& c_5d_2^2d_6 + c_6d_2^2d_6 + c_5d_3^2d_6 + c_6d_3^2d_6 + c_5d_4^2d_6 + c_6d_4^2d_6 + c_6d_5^2d_6 + c_5d_2^2d_7 + c_6d_2^2d_7 + \\
& c_7d_2^2d_7 + c_5d_3^2d_7 + c_6d_3^2d_7 + c_7d_3^2d_7 + c_5d_4^2d_7 + c_6d_4^2d_7 + c_7d_4^2d_7 + c_6d_5^2d_7 + c_7d_5^2d_7 + \\
& c_7d_6^2d_7 + c_4(d_2^2 + d_3^2)(d_4 + d_5 + d_6 + d_7) + c_3d_2^2(d_3 + d_4 + d_5 + d_6 + d_7));
\end{aligned}$$

$$\begin{aligned}
eq[57] = & -\frac{1}{720} + \frac{1}{2}(c_3c_4c_5d_3^2d_4 + c_3c_4c_6d_3^2d_4 + c_3c_4c_7d_3^2d_4 + c_3c_4c_6d_3^2d_5 + c_3c_5c_6d_3^2d_5 + \\
& c_3c_4c_7d_3^2d_5 + c_3c_5c_7d_3^2d_5 + c_3c_5c_6d_4^2d_5 + c_4c_5c_6d_4^2d_5 + c_3c_5c_7d_4^2d_5 + c_4c_5c_7d_4^2d_5 + \\
& c_3c_4c_7d_3^2d_6 + c_3c_5c_7d_3^2d_6 + c_3c_6c_7d_3^2d_6 + c_3c_5c_7d_4^2d_6 + c_4c_5c_7d_4^2d_6 + c_3c_6c_7d_4^2d_6 + \\
& c_4c_6c_7d_4^2d_6 + c_3c_6c_7d_5^2d_6 + c_4c_6c_7d_5^2d_6 + c_5c_6c_7d_5^2d_6 + c_1(c_4c_5d_1^2d_4 + c_4c_6d_1^2d_4 + \\
& c_4c_7d_1^2d_4 + c_4c_5d_2^2d_4 + c_4c_6d_2^2d_4 + c_4c_7d_2^2d_4 + c_4c_5d_3^2d_4 + c_4c_6d_3^2d_4 + c_4c_7d_3^2d_4 + \\
& c_4c_6d_1^2d_5 + c_5c_6d_1^2d_5 + c_4c_7d_1^2d_5 + c_5c_7d_1^2d_5 + c_4c_6d_2^2d_5 + c_5c_6d_2^2d_5 + c_4c_7d_2^2d_5 + \\
& c_5c_7d_2^2d_5 + c_4c_6d_3^2d_5 + c_5c_6d_3^2d_5 + c_4c_7d_3^2d_5 + c_5c_7d_3^2d_5 + c_5c_6d_4^2d_5 + c_5c_7d_4^2d_5 + \\
& c_4c_7d_1^2d_6 + c_5c_7d_1^2d_6 + c_6c_7d_1^2d_6 + c_4c_7d_2^2d_6 + c_5c_7d_2^2d_6 + c_6c_7d_2^2d_6 + c_4c_7d_3^2d_6 + \\
& c_5c_7d_3^2d_6 + c_6c_7d_3^2d_6 + c_5c_7d_4^2d_6 + c_6c_7d_4^2d_6 + c_6c_7d_5^2d_6 + c_2d_1^2(c_3d_2 + c_5d_2 + c_6d_2 + \\
& c_7d_2 + c_5d_3 + c_6d_3 + c_7d_3 + c_4(d_2 + d_3) + c_5d_4 + c_6d_4 + c_7d_4 + c_6d_5 + c_7d_5 + c_7d_6) + \\
& c_3(d_1^2 + d_2^2)(c_4d_3 + c_6d_3 + c_7d_3 + c_6d_4 + c_7d_4 + c_5(d_3 + d_4) + c_6d_5 + c_7d_5 + c_7d_6)) + \\
& c_2(c_5c_6d_2^2d_5 + c_5c_7d_2^2d_5 + c_5c_6d_3^2d_5 + c_5c_7d_3^2d_5 + c_5c_6d_4^2d_5 + c_5c_7d_4^2d_5 + c_5c_7d_2^2d_6 + \\
& c_6c_7d_2^2d_6 + c_5c_7d_3^2d_6 + c_6c_7d_3^2d_6 + c_5c_7d_4^2d_6 + c_6c_7d_4^2d_6 + c_6c_7d_5^2d_6 + c_3d_2^2(c_4d_3 + \\
& c_6d_3 + c_7d_3 + c_6d_4 + c_7d_4 + c_5(d_3 + d_4) + c_6d_5 + c_7d_5 + c_7d_6) + c_4(d_2^2 + d_3^2)(c_5d_4 + \\
& c_7d_4 + c_7d_5 + c_6(d_4 + d_5) + c_7d_6));
\end{aligned}$$

$$\begin{aligned}
eq[58] = & -\frac{1}{720} + \frac{1}{2}(c_4^2c_5d_1d_4d_5 + c_4^2c_5d_2d_4d_5 + c_4^2c_5d_3d_4d_5 + c_4^2c_5d_1d_4d_6 + c_4^2c_6d_1d_4d_6 + \\
& c_4^2c_5d_2d_4d_6 + c_4^2c_6d_2d_4d_6 + c_4^2c_5d_3d_4d_6 + c_4^2c_6d_3d_4d_6 + c_4^2c_6d_1d_5d_6 + c_5^2c_6d_1d_5d_6 + \\
& c_4^2c_6d_2d_5d_6 + c_5^2c_6d_2d_5d_6 + c_4^2c_6d_3d_5d_6 + c_5^2c_6d_3d_5d_6 + c_5^2c_6d_4d_5d_6 + c_4^2c_5d_1d_4d_7 + \\
& c_4^2c_6d_1d_4d_7 + c_4^2c_7d_1d_4d_7 + c_4^2c_5d_2d_4d_7 + c_4^2c_6d_2d_4d_7 + c_4^2c_7d_2d_4d_7 + c_4^2c_5d_3d_4d_7 + \\
& c_4^2c_6d_3d_4d_7 + c_4^2c_7d_3d_4d_7 + c_4^2c_6d_1d_5d_7 + c_5^2c_6d_1d_5d_7 + c_4^2c_7d_1d_5d_7 + c_5^2c_7d_1d_5d_7 + \\
& c_4^2c_6d_2d_5d_7 + c_5^2c_6d_2d_5d_7 + c_4^2c_7d_2d_5d_7 + c_5^2c_7d_2d_5d_7 + c_4^2c_6d_3d_5d_7 + c_5^2c_6d_3d_5d_7 + \\
& c_4^2c_7d_3d_5d_7 + c_5^2c_7d_3d_5d_7 + c_5^2c_6d_4d_5d_7 + c_5^2c_7d_4d_5d_7 + c_4^2c_7d_1d_6d_7 + c_5^2c_7d_1d_6d_7 + \\
& c_6^2c_7d_1d_6d_7 + c_4^2c_7d_2d_6d_7 + c_5^2c_7d_2d_6d_7 + c_6^2c_7d_2d_6d_7 + c_4^2c_7d_3d_6d_7 + c_5^2c_7d_3d_6d_7 + \\
& c_6^2c_7d_3d_6d_7 + c_5^2c_7d_4d_6d_7 + c_6^2c_7d_4d_6d_7 + c_6^2c_7d_5d_6d_7 + c_3^2(d_1 + d_2)(c_6d_3d_6 + c_6d_4d_6 + \\
& c_6d_5d_6 + c_6d_3d_7 + c_7d_3d_7 + c_6d_4d_7 + c_7d_4d_7 + c_6d_5d_7 + c_7d_5d_7 + c_7d_6d_7 + c_5(d_3 + d_4)(d_5 + \\
& d_6 + d_7) + c_4d_3(d_4 + d_5 + d_6 + d_7)) + c_2^2d_1(c_5d_2d_5 + c_5d_3d_5 + c_5d_4d_5 + c_5d_2d_6 + c_6d_2d_6 + \\
& c_5d_3d_6 + c_6d_3d_6 + c_5d_4d_6 + c_6d_4d_6 + c_6d_5d_6 + c_5d_2d_7 + c_6d_2d_7 + c_7d_2d_7 + c_5d_3d_7 + c_6d_3d_7 + \\
& c_7d_3d_7 + c_5d_4d_7 + c_6d_4d_7 + c_7d_4d_7 + c_6d_5d_7 + c_7d_5d_7 + c_7d_6d_7 + c_4(d_2 + d_3)(d_4 + d_5 + \\
& d_6 + d_7) + c_3d_2(d_3 + d_4 + d_5 + d_6 + d_7));
\end{aligned}$$

$$\begin{aligned}
eq[59] = & -\frac{1}{720} + \frac{1}{2}(c_3^2c_4c_5d_3d_4 + c_3^2c_4c_6d_3d_4 + c_3^2c_4c_7d_3d_4 + c_3^2c_4c_6d_3d_5 + c_3^2c_5c_6d_3d_5 + \\
& c_3^2c_4c_7d_3d_5 + c_3^2c_5c_7d_3d_5 + c_3^2c_5c_6d_4d_5 + c_4^2c_5c_6d_4d_5 + c_3^2c_5c_7d_4d_5 + c_4^2c_5c_7d_4d_5 + \\
& c_3^2c_4c_7d_3d_6 + c_3^2c_5c_7d_3d_6 + c_3^2c_6c_7d_3d_6 + c_3^2c_5c_7d_4d_6 + c_4^2c_5c_7d_4d_6 + c_3^2c_6c_7d_4d_6 +
\end{aligned}$$

$$\begin{aligned}
& c_4^2 c_6 c_7 d_4 d_6 + c_3^2 c_6 c_7 d_5 d_6 + c_4^2 c_6 c_7 d_5 d_6 + c_5^2 c_6 c_7 d_5 d_6 + c_1^2 (c_4 c_5 d_1 d_4 + c_4 c_6 d_1 d_4 + \\
& c_4 c_7 d_1 d_4 + c_4 c_5 d_2 d_4 + c_4 c_6 d_2 d_4 + c_4 c_7 d_2 d_4 + c_4 c_5 d_3 d_4 + c_4 c_6 d_3 d_4 + c_4 c_7 d_3 d_4 + c_4 c_6 d_1 d_5 + \\
& c_5 c_6 d_1 d_5 + c_4 c_7 d_1 d_5 + c_5 c_7 d_1 d_5 + c_4 c_6 d_2 d_5 + c_5 c_6 d_2 d_5 + c_4 c_7 d_2 d_5 + c_5 c_7 d_2 d_5 + c_4 c_6 d_3 d_5 + \\
& c_5 c_6 d_3 d_5 + c_4 c_7 d_3 d_5 + c_5 c_7 d_3 d_5 + c_5 c_6 d_4 d_5 + c_5 c_7 d_4 d_5 + c_4 c_7 d_1 d_6 + c_5 c_7 d_1 d_6 + c_6 c_7 d_1 d_6 + \\
& c_4 c_7 d_2 d_6 + c_5 c_7 d_2 d_6 + c_6 c_7 d_2 d_6 + c_4 c_7 d_3 d_6 + c_5 c_7 d_3 d_6 + c_6 c_7 d_3 d_6 + c_5 c_7 d_4 d_6 + c_6 c_7 d_4 d_6 + \\
& c_6 c_7 d_5 d_6 + c_2 d_1 (c_3 d_2 + c_5 d_2 + c_6 d_2 + c_7 d_2 + c_5 d_3 + c_6 d_3 + c_7 d_3 + c_4 (d_2 + d_3) + c_5 d_4 + \\
& c_6 d_4 + c_7 d_4 + c_6 d_5 + c_7 d_5 + c_7 d_6) + c_3 (d_1 + d_2) (c_4 d_3 + c_6 d_3 + c_7 d_3 + c_6 d_4 + c_7 d_4 + \\
& c_5 (d_3 + d_4) + c_6 d_5 + c_7 d_5 + c_7 d_6) + c_2^2 (c_5 c_6 d_2 d_5 + c_5 c_7 d_2 d_5 + c_5 c_6 d_3 d_5 + c_5 c_7 d_3 d_5 + \\
& c_5 c_6 d_4 d_5 + c_5 c_7 d_4 d_5 + c_5 c_7 d_2 d_6 + c_6 c_7 d_2 d_6 + c_5 c_7 d_3 d_6 + c_6 c_7 d_3 d_6 + c_5 c_7 d_4 d_6 + c_6 c_7 d_4 d_6 + \\
& c_6 c_7 d_5 d_6 + c_3 d_2 (c_4 d_3 + c_6 d_3 + c_7 d_3 + c_6 d_4 + c_7 d_4 + c_5 (d_3 + d_4) + c_6 d_5 + c_7 d_5 + c_7 d_6) + \\
& c_4 (d_2 + d_3) (c_5 d_4 + c_7 d_4 + c_7 d_5 + c_6 (d_4 + d_5) + c_7 d_6));
\end{aligned}$$

$$\begin{aligned}
& eq[60] = -\frac{1}{720} + \frac{1}{2} (c_4 c_5 d_1^2 d_4 d_5 + c_4 c_5 d_2^2 d_4 d_5 + c_4 c_5 d_3^2 d_4 d_5 + c_4 c_5 d_1^2 d_4 d_6 + c_4 c_6 d_1^2 d_4 d_6 + \\
& c_4 c_5 d_2^2 d_4 d_6 + c_4 c_6 d_2^2 d_4 d_6 + c_4 c_5 d_3^2 d_4 d_6 + c_4 c_6 d_3^2 d_4 d_6 + c_4 c_6 d_1^2 d_5 d_6 + c_5 c_6 d_1^2 d_5 d_6 + \\
& c_4 c_6 d_2^2 d_5 d_6 + c_5 c_6 d_2^2 d_5 d_6 + c_4 c_6 d_3^2 d_5 d_6 + c_5 c_6 d_3^2 d_5 d_6 + c_5 c_6 d_4^2 d_5 d_6 + c_4 c_5 d_1^2 d_4 d_7 + \\
& c_4 c_6 d_1^2 d_4 d_7 + c_4 c_7 d_1^2 d_4 d_7 + c_4 c_5 d_2^2 d_4 d_7 + c_4 c_6 d_2^2 d_4 d_7 + c_4 c_7 d_2^2 d_4 d_7 + c_4 c_5 d_3^2 d_4 d_7 + \\
& c_4 c_6 d_3^2 d_4 d_7 + c_4 c_7 d_3^2 d_4 d_7 + c_4 c_6 d_1^2 d_5 d_7 + c_5 c_6 d_1^2 d_5 d_7 + c_4 c_7 d_1^2 d_5 d_7 + c_5 c_7 d_1^2 d_5 d_7 + \\
& c_4 c_6 d_2^2 d_5 d_7 + c_5 c_6 d_2^2 d_5 d_7 + c_4 c_7 d_2^2 d_5 d_7 + c_5 c_7 d_2^2 d_5 d_7 + c_4 c_6 d_3^2 d_5 d_7 + c_5 c_6 d_3^2 d_5 d_7 + \\
& c_4 c_7 d_3^2 d_5 d_7 + c_5 c_7 d_3^2 d_5 d_7 + c_5 c_6 d_4^2 d_5 d_7 + c_5 c_7 d_4^2 d_5 d_7 + c_4 c_7 d_1^2 d_6 d_7 + c_5 c_7 d_1^2 d_6 d_7 + \\
& c_6 c_7 d_1^2 d_6 d_7 + c_4 c_7 d_2^2 d_6 d_7 + c_5 c_7 d_2^2 d_6 d_7 + c_6 c_7 d_2^2 d_6 d_7 + c_4 c_7 d_3^2 d_6 d_7 + c_5 c_7 d_3^2 d_6 d_7 + \\
& c_6 c_7 d_3^2 d_6 d_7 + c_5 c_7 d_4^2 d_6 d_7 + c_6 c_7 d_4^2 d_6 d_7 + c_6 c_7 d_5^2 d_6 d_7 + c_3 (d_1^2 + d_2^2) (c_6 d_3 d_6 + c_6 d_4 d_6 + \\
& c_6 d_5 d_6 + c_6 d_3 d_7 + c_7 d_3 d_7 + c_6 d_4 d_7 + c_7 d_4 d_7 + c_6 d_5 d_7 + c_7 d_5 d_7 + c_7 d_6 d_7 + c_5 (d_3 + d_4) (d_5 + \\
& d_6 + d_7) + c_4 d_3 (d_4 + d_5 + d_6 + d_7)) + c_2 d_1^2 (c_5 d_2 d_5 + c_5 d_3 d_5 + c_5 d_4 d_5 + c_5 d_2 d_6 + c_6 d_2 d_6 + \\
& c_5 d_3 d_6 + c_6 d_3 d_6 + c_5 d_4 d_6 + c_6 d_4 d_6 + c_6 d_5 d_6 + c_5 d_2 d_7 + c_6 d_2 d_7 + c_7 d_2 d_7 + c_5 d_3 d_7 + c_6 d_3 d_7 + \\
& c_7 d_3 d_7 + c_5 d_4 d_7 + c_6 d_4 d_7 + c_7 d_4 d_7 + c_6 d_5 d_7 + c_7 d_5 d_7 + c_7 d_6 d_7 + c_4 (d_2 + d_3) (d_4 + d_5 + \\
& d_6 + d_7) + c_3 d_2 (d_3 + d_4 + d_5 + d_6 + d_7));
\end{aligned}$$

$$\begin{aligned}
& eq[61] = -\frac{1}{720} + c_3 c_4 c_5 d_3 d_4 d_5 + c_3 c_4 c_5 d_3 d_4 d_6 + c_3 c_4 c_6 d_3 d_4 d_6 + c_3 c_4 c_6 d_3 d_5 d_6 + \\
& c_3 c_5 c_6 d_3 d_5 d_6 + c_3 c_5 c_6 d_4 d_5 d_6 + c_4 c_5 c_6 d_4 d_5 d_6 + c_3 c_4 c_5 d_3 d_4 d_7 + c_3 c_4 c_6 d_3 d_4 d_7 + c_3 c_4 c_7 d_3 d_4 d_7 + \\
& c_3 c_4 c_6 d_3 d_5 d_7 + c_3 c_5 c_6 d_3 d_5 d_7 + c_3 c_4 c_7 d_3 d_5 d_7 + c_3 c_5 c_7 d_3 d_5 d_7 + c_3 c_5 c_6 d_4 d_5 d_7 + c_4 c_5 c_6 d_4 d_5 d_7 + \\
& c_3 c_5 c_7 d_4 d_5 d_7 + c_4 c_5 c_7 d_4 d_5 d_7 + c_3 c_4 c_7 d_3 d_6 d_7 + c_3 c_5 c_7 d_3 d_6 d_7 + c_3 c_6 c_7 d_3 d_6 d_7 + c_3 c_5 c_7 d_4 d_6 d_7 + \\
& c_4 c_5 c_7 d_4 d_6 d_7 + c_3 c_6 c_7 d_4 d_6 d_7 + c_4 c_6 c_7 d_4 d_6 d_7 + c_3 c_6 c_7 d_5 d_6 d_7 + c_4 c_6 c_7 d_5 d_6 d_7 + c_5 c_6 c_7 d_5 d_6 d_7 + \\
& c_2 (c_5 c_6 d_2 d_5 d_6 + c_5 c_6 d_3 d_5 d_6 + c_5 c_6 d_4 d_5 d_6 + c_5 c_6 d_2 d_5 d_7 + c_5 c_7 d_2 d_5 d_7 + c_5 c_6 d_3 d_5 d_7 + \\
& c_5 c_7 d_3 d_5 d_7 + c_5 c_6 d_4 d_5 d_7 + c_5 c_7 d_4 d_5 d_7 + c_5 c_7 d_2 d_6 d_7 + c_6 c_7 d_2 d_6 d_7 + c_5 c_7 d_3 d_6 d_7 + c_6 c_7 d_3 d_6 d_7 + \\
& c_5 c_7 d_4 d_6 d_7 + c_6 c_7 d_4 d_6 d_7 + c_6 c_7 d_5 d_6 d_7 + c_4 (d_2 + d_3) (c_7 d_4 d_7 + c_7 d_5 d_7 + c_7 d_6 d_7 + c_6 (d_4 + \\
& d_5) (d_6 + d_7) + c_5 d_4 (d_5 + d_6 + d_7)) + c_3 d_2 (c_6 d_3 d_6 + c_6 d_4 d_6 + c_6 d_5 d_6 + c_6 d_3 d_7 + c_7 d_3 d_7 + \\
& c_6 d_4 d_7 + c_7 d_4 d_7 + c_6 d_5 d_7 + c_7 d_6 d_7 + c_5 (d_3 + d_4) (d_5 + d_6 + d_7) + c_4 d_3 (d_4 + d_5 + d_6 + \\
& d_7)) + c_1 (c_4 c_5 d_1 d_4 d_5 + c_4 c_5 d_2 d_4 d_5 + c_4 c_5 d_3 d_4 d_5 + c_4 c_5 d_1 d_4 d_6 + c_4 c_6 d_1 d_4 d_6 + c_4 c_5 d_2 d_4 d_6 + \\
& c_4 c_6 d_2 d_4 d_6 + c_4 c_5 d_3 d_4 d_6 + c_4 c_6 d_3 d_4 d_6 + c_4 c_6 d_1 d_5 d_6 + c_5 c_6 d_1 d_5 d_6 + c_4 c_6 d_2 d_5 d_6 + c_5 c_6 d_2 d_5 d_6 + \\
& c_4 c_6 d_3 d_5 d_6 + c_5 c_6 d_3 d_5 d_6 + c_5 c_6 d_4 d_5 d_6 + c_4 c_5 d_1 d_4 d_7 + c_4 c_6 d_1 d_4 d_7 + c_4 c_7 d_1 d_4 d_7 + c_4 c_5 d_2 d_4 d_7 + \\
& c_4 c_6 d_2 d_4 d_7 + c_4 c_7 d_2 d_4 d_7 + c_4 c_5 d_3 d_4 d_7 + c_4 c_6 d_3 d_4 d_7 + c_4 c_7 d_3 d_4 d_7 + c_4 c_6 d_1 d_5 d_7 + c_5 c_6 d_1 d_5 d_7 + \\
& c_4 c_7 d_1 d_5 d_7 + c_5 c_7 d_1 d_5 d_7 + c_4 c_6 d_2 d_5 d_7 + c_5 c_6 d_2 d_5 d_7 + c_4 c_7 d_2 d_5 d_7 + c_5 c_7 d_2 d_5 d_7 + c_4 c_6 d_3 d_5 d_7 + \\
& c_5 c_6 d_3 d_5 d_7 + c_4 c_7 d_3 d_5 d_7 + c_5 c_7 d_3 d_5 d_7 + c_5 c_6 d_4 d_5 d_7 + c_5 c_7 d_4 d_5 d_7 + c_4 c_7 d_1 d_6 d_7 + c_5 c_7 d_1 d_6 d_7 + \\
& c_6 c_7 d_1 d_6 d_7 + c_4 c_7 d_2 d_6 d_7 + c_5 c_7 d_2 d_6 d_7 + c_6 c_7 d_2 d_6 d_7 + c_4 c_7 d_3 d_6 d_7 + c_5 c_7 d_3 d_6 d_7 + c_6 c_7 d_3 d_6 d_7 + \\
& c_5 c_7 d_4 d_6 d_7 + c_6 c_7 d_4 d_6 d_7 + c_6 c_7 d_5 d_6 d_7 + c_3 (d_1 + d_2) (c_6 d_3 d_6 + c_6 d_4 d_6 + c_6 d_5 d_6 + c_6 d_3 d_7 + \\
& c_7 d_3 d_7 + c_6 d_4 d_7 + c_7 d_4 d_7 + c_6 d_5 d_7 + c_7 d_5 d_7 + c_7 d_6 d_7 + c_5 (d_3 + d_4) (d_5 + d_6 + d_7) + \\
& c_4 d_3 (d_4 + d_5 + d_6 + d_7)) + c_2 d_1 (c_5 d_2 d_5 + c_5 d_3 d_5 + c_5 d_4 d_5 + c_5 d_2 d_6 + c_6 d_2 d_6 + c_5 d_3 d_6 + \\
& c_6 d_3 d_6 + c_5 d_4 d_6 + c_6 d_4 d_6 + c_6 d_5 d_6 + c_5 d_2 d_7 + c_6 d_2 d_7 + c_7 d_2 d_7 + c_5 d_3 d_7 + c_6 d_3 d_7 + \\
& c_7 d_3 d_7 + c_5 d_4 d_7 + c_6 d_4 d_7 + c_7 d_4 d_7 + c_6 d_5 d_7 + c_7 d_5 d_7 + c_7 d_6 d_7 + c_4 (d_2 + d_3) (d_4 + d_5 +
\end{aligned}$$

$$d_6 + d_7) + c_3 d_2 (d_3 + d_4 + d_5 + d_6 + d_7));$$

$$\begin{aligned} eq[62] = & -\frac{1}{720} + c_4 c_5 c_6 d_1 d_4 d_5 + c_4 c_5 c_7 d_1 d_4 d_5 + c_4 c_5 c_6 d_2 d_4 d_5 + c_4 c_5 c_7 d_2 d_4 d_5 + \\ & c_4 c_5 c_6 d_3 d_4 d_5 + c_4 c_5 c_7 d_3 d_4 d_5 + c_4 c_5 c_7 d_1 d_4 d_6 + c_4 c_6 c_7 d_1 d_4 d_6 + c_4 c_5 c_7 d_2 d_4 d_6 + c_4 c_6 c_7 d_2 d_4 d_6 + \\ & c_4 c_5 c_7 d_3 d_4 d_6 + c_4 c_6 c_7 d_3 d_4 d_6 + c_4 c_6 c_7 d_1 d_5 d_6 + c_5 c_6 c_7 d_1 d_5 d_6 + c_4 c_6 c_7 d_2 d_5 d_6 + c_5 c_6 c_7 d_2 d_5 d_6 + \\ & c_4 c_6 c_7 d_3 d_5 d_6 + c_5 c_6 c_7 d_3 d_5 d_6 + c_5 c_6 c_7 d_4 d_5 d_6 + c_2 d_1 (c_5 c_6 d_2 d_5 + c_5 c_7 d_2 d_5 + c_5 c_6 d_3 d_5 + \\ & c_5 c_7 d_3 d_5 + c_5 c_6 d_4 d_5 + c_5 c_7 d_4 d_5 + c_5 c_7 d_2 d_6 + c_6 c_7 d_2 d_6 + c_5 c_7 d_3 d_6 + c_6 c_7 d_3 d_6 + c_5 c_7 d_4 d_6 + \\ & c_6 c_7 d_4 d_6 + c_6 c_7 d_5 d_6 + c_3 d_2 (c_4 d_3 + c_6 d_3 + c_7 d_3 + c_6 d_4 + c_7 d_4 + c_5 (d_3 + d_4) + c_6 d_5 + c_7 d_5 + \\ & c_7 d_6) + c_4 (d_2 + d_3) (c_5 d_4 + c_7 d_4 + c_7 d_5 + c_6 (d_4 + d_5) + c_7 d_6)) + c_3 (d_1 + d_2) (c_6 c_7 d_3 d_6 + \\ & c_6 c_7 d_4 d_6 + c_6 c_7 d_5 d_6 + c_4 d_3 (c_5 d_4 + c_7 d_4 + c_7 d_5 + c_6 (d_4 + d_5) + c_7 d_6) + c_5 (d_3 + d_4) (c_6 d_5 + \\ & c_7 (d_5 + d_6))); \end{aligned}$$