Matlab M Script (Error Analysis):  
  
Substitution:

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| syms x %create symbolic variable x  tic %start stop watch timer  equation2=(abs(cos((1-x)/x))/x/(1-x))\*exp(-(log((1/x)/x)-3)^2);  d4equation=diff(equation2,4); %obtain the fourth derivative of the equation  a=0;b=0; %initialize the variables  for n=0.0005:0.005:1 %define the interval and the increment      a=a+subs(d4equation,x,n); %for loop for the sum of the derivatives at points      b=b+1; %order increases by 1 after sum of a  end  average1=a/b; %calculate the mean of the derivatives  cserrs=average1.\*(-1/2880).\*(1-0.0005).\*(0.005).^4 %Error estimation of CsimpsonRule  toc %stop the stop watch timer and show the elapsed time    tic %start stop watch timer  equation=(abs(cos((1-x)/x))/x/(1-x))\*exp(-(log((1/x)/x)-3)^2);  d4equation2=diff(equation2,2); %obtain the second derivative of the equation  c=0;d=0; %initialize the variables  for n=0.0005:0.005:1 %define the interval and the increment      c=c+subs(d4equation2,x,n); %for loop for the sum of the derivatives at points      d=d+1; %order increases by 1 after sum of c  end  average2=c/d; %calculate the mean of the derivatives  cterrs=average2.\*(-1/12).\*(1-0.0005).\*(0.005).^2 %Error estimation of CTrapezoidalRule  toc %stop the stop watch timer    tic %start the stop watch timer  cserrs-cterrs %Calculate the difference between the two rules  sign(cserrs-cterrs) %show which rule has higher error  toc %obtain the elapsed time |

Maximization:

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| syms x %create symbolic variable x  tic %start stop watch timer  equation=(abs(cos(x))/x)\*exp(-(log(x)-3)^2); %define the equation  d4equation=diff(equation,4); %obtain the fourth derivative of the equation  a=0;b=0; %initialize the variables  for n=1/1e7:5000:1e7 %define the interval and the increment      a=a+subs(d4equation,x,n); %for loop for the sum of the derivatives at points      b=b+1; %order increases by 1 after sum of a  end  average1=a/b; %calculate the mean of the derivatives  cserr=average1.\*(1/2880).\*(1e7-1/1e7).\*(5000).^4 %Error estimation of CsimpsonRule  toc %stop the stop watch timer and show the elapsed time    tic %start stop watch timer  equation=(abs(cos(x))/x)\*exp(-(log(x)-3)^2); %define the equation  d4equation2=diff(equation,2); %obtain the second derivative of the equation  c=0;d=0; %initialize the variables  for n=1/1e7:5000:1e7 %define the interval and the increment      c=c+subs(d4equation2,x,n); %for loop for the sum of the derivatives at points      d=d+1; %order increases by 1 after sum of c  end  average2=c/d; %calculate the mean of the derivatives  cterr=average2.\*(-1/12).\*(1e7-1/1e7).\*(5000).^2 %Error estimation of CTrapezoidalRule  toc %stop the stop watch timer    tic %start the stop watch timer  cserr-cterr %Calculate the difference between the two rules  sign(cserr-cterr) %show which rule has higher error  toc %obtain the elapsed time    sign(cserr-cserrs)  sign(cterr-cterrs) |

Matlab Output:  
  
Substitution

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| >> substitution  cserrs =  (74691033056379149579571941891302198756062255859375\*cos(1959/41)\*exp(-(log(4000000/1681) - 3)^2))/43559874678022405967195044983620296421560031379456 - (20024714671840460703400840489596403099384521484375\*cos(1989/11)\*exp(-(log(4000000/121) - 3)^2))/84626781042378137778999039310410136141430784 - (33579458658484344875171487369316524741774658203125\*cos(1979/21)\*exp(-(log(4000000/441) - 3)^2))/47652486776428056359299326063014040101720162304 - (38273582691277325731960659693645028190091064453125\*cos(1969/31)\*exp(-(log(4000000/961) - 3)^2))/1804319990080885167001326547224254625766763921408 - (40910595266633503571989243523257280514892578125\*cos(1999)\*exp(-(log(4000000) - 3)^2))/73639512985824095846981020155904 - (27296331619291009760040830839045781808581787109375\*cos(1949/51)\*exp(-(log(4000000/2601) - 3)^2))/113522456281022348066045326043709190339793818484736 - (10121562284036433729130429462568306600283935546875\*cos(1939/61)\*exp(-(log(4000000/3721) - 3)^2))/211163694438002565896592655283764206584155548418048 + (34439546620375426793265897097517819098174560546875\*cos(1929/71)\*exp(-(log(4000000/5041) - 3)^2))/2823683474817046873613410278170972605780866040332288 - (200640894255290170033764357477843768492859619140625\*cos(1919/81)\*exp(-(log(4000000/6561) - 3)^2))/54040707911713498001447857808928487673866886785794048 + (2316424180860514865363459730530396482233154296875\*cos(1909/91)\*exp(-(log(4000000/8281) - 3)^2))/1786914910354259957034026690143590451290230543613952 - (62822888193393625667897156952460493332412353515625\*cos(1899/101)\*exp(-(log(4000000/10201) - 3)^2))/124559517969589293840499057714596183617286012451946496 + (91161200753095317513540690756957589224438232421875\*cos(1889/111)\*exp(-(log(4000000/12321) - 3)^2))/425615650203904797157654333961561135391367870550114304 + (58718172866408964339707913889513477864568115234375\*cos(1879/121)\*exp(-(log(4000000/14641) - 3)^2))/600567690936831329448295658174529443573729208121163776 + (63235861788228599399958068685204438423095703125\*cos(1869/131)\*exp(-(log(4000000/17161) - 3)^2))/1333643919744014142812736690424592330191924201783296 - (163805152281730310595802627849463721788120849609375\*cos(1859/141)\*exp(-(log(4000000/19881) - 3)^2))/6766279734945957827884489331497044785138433838251245568 - (26274611695540413995445400596221851690318115234375\*cos(1849/151)\*exp(-(log(4000000/22801) - 3)^2))/2033793321770860158538150975618766082916907624953806848 - (7215077628270423715613653956693907606790283203125\*cos(1839/161)\*exp(-(log(4000000/25921) - 3)^2))/1007171021375927323263956306137289266377744084262453248 + (36355633808496639448958399165369328265404541015625\*cos(1829/171)\*exp(-(log(4000000/29241) - 3)^2))/8850229147562930293219775484114689003037050633277407232 + (46458445459271762130257317000758933633496337890625\*cos(1819/181)\*exp(-(log(4000000/32761) - 3)^2))/19148307815974326553207589787208274009605241549583548416 + (22230742770706080076152234972331657765003173828125\*cos(1809/191)\*exp(-(log(4000000/36481) - 3)^2))/15112032365029268086694191116226095312209860465973526528 + (18208401866824044640019487284520153944487060546875\*cos(1799/201)\*exp(-(log(4000000/40401) - 3)^2))/19943587337261873476383146334596045465117229263181840384 + (5066951566810149417318119386636515434186279296875\*cos(1789/211)\*exp(-(log(4000000/44521) - 3)^2))/8757165243052674361332271978151038505232741192792276992 + (38612165407888416257627119361783855585405517578125\*cos(1779/221)\*exp(-(log(4000000/48841) - 3)^2))/103340351580644846903488905278767055249859940180794802176 - (7868236212328811956168789326156608015363037109375\*cos(1769/231)\*exp(-(log(4000000/53361) - 3)^2))/32062688356681551508577730444363845836400349601314373632 - (34856785540965388862542167667454460124006591796875\*cos(1759/241)\*exp(-(log(4000000/58081) - 3)^2))/212981710993329322238799477204360953114463479486539104256 - (8257359678202211198437143227492521519142822265625\*cos(1749/251)\*exp(-(log(4000000/63001) - 3)^2))/74612618313325220055855409622047527262170668509402497024 - (93715454985954193714405782845580581277178466796875\*cos(1739/261)\*exp(-(log(4000000/68121) - 3)^2))/1236640489738408708573037868886711847230914853752073617408 - (2106134627556965238496965373386945689023193359375\*cos(1729/271)\*exp(-(log(4000000/73441) - 3)^2))/40126407541733825963331771479426975883054810903697424384 - (27773473121175980958398958949311607898767333984375\*cos(1719/281)\*exp(-(log(4000000/78961) - 3)^2))/756129171953141259093969434935523499384466053971696418816 - (4894305641186756812005005713678304353826416015625\*cos(1709/291)\*exp(-(log(4000000/84681) - 3)^2))/188628893731721265616590170944006125890436620510872731648 - (3496564417013090593757391698772600899297607421875\*cos(1699/301)\*exp(-(log(4000000/90601) - 3)^2))/189159015861094625807399317961218701920491942352496099328 - (11446957915614302889419485926253177697261474609375\*cos(1689/311)\*exp(-(log(4000000/96721) - 3)^2))/862623896004207196316347229145239487829111795724392071168 - (64074678692957096146410706846077725756131103515625\*cos(1679/321)\*exp(-(log(4000000/103041) - 3)^2))/6680050692931508826757473823952422926351869026358135881728 - (4967535174789190610130891817344577948906005859375\*cos(1669/331)\*exp(-(log(4000000/109561) - 3)^2))/712087508189966368197003061409140506789576885924479893504 - (2632972962422515850155834424923769833443115234375\*cos(1659/341)\*exp(-(log(4000000/116281) - 3)^2))/516158438902175677507223342149416037739145327238403063808 + (25561924455486038408623325020245570435370849609375\*cos(1649/351)\*exp(-(log(4000000/123201) - 3)^2))/6820533033152319148774709906217394984716594982597630623744 + (15702501161590294689891754380555789074460693359375\*cos(1639/361)\*exp(-(log(4000000/130321) - 3)^2))/5679620475296018855165138642471010284785595564324905025536 + (257416215104296770062939277871372164157958984375\*cos(1629/371)\*exp(-(log(4000000/137641) - 3)^2))/125788897949751008910986133524097592282058660846550122496 + (39541341026685940069186503270440923550220458984375\*cos(1619/381)\*exp(-(log(4000000/145161) - 3)^2))/26033946661812317403201219023273032016111570383112553627648 + (5999281811781665062183890707732686237061279296875\*cos(1609/391)\*exp(-(log(4000000/152881) - 3)^2))/5311299266742871978004209228899693388568969830057983868928 + (10870207060462237369961237508146163756643310546875\*cos(1599/401)\*exp(-(log(4000000/160801) - 3)^2))/12924132549516406690843923435858268440476640285406261149696 + (1049553363147468777751801030342269282431884765625\*cos(1589/411)\*exp(-(log(4000000/168921) - 3)^2))/1675015528028109621010306330469925090798779647398758055936 + (8775796786793520854465213474851433983623291015625\*cos(1579/421)\*exp(-(log(4000000/177241) - 3)^2))/18806554796857459191132614175341619216563240178831616638976 + (3905185332464993818603045109443376293386962890625\*cos(1569/431)\*exp(-(log(4000000/185761) - 3)^2))/11252263271382467812460133187397930951251243771655469662208 + (2957026601667294297055822938881686223949951171875\*cos(1559/441)\*exp(-(log(4000000/194481) - 3)^2))/11483144424726404578945231047407462793334399350216037761024 + (188873626092008625448238710862648203618896484375\*cos(1549/451)\*exp(-(log(4000000/203401) - 3)^2))/992100614299588424109607489234493582095575166865037590528 + (5243047889239123991677584122045975375376220703125\*cos(1539/461)\*exp(-(log(4000000/212521) - 3)^2))/37442182763615525160668286203298619407394517158336382631936 + (6745366338905119206894148969327205653239501953125\*cos(1529/471)\*exp(-(log(4000000/221841) - 3)^2))/65944196575816749495524523201716799528620300092108663947264 + (543623407633186720519543131321927251829345703125\*cos(1519/481)\*exp(-(log(4000000/231361) - 3)^2))/7342707831234645359670224305383534597186196827996147417088 + (792034689245678132387056940467138930697998046875\*cos(1509/491)\*exp(-(log(4000000/241081) - 3)^2))/14961645756039034327518484300083754338399994092444727640064 + (7754645237225249766936738205191132997871826171875\*cos(1499/501)\*exp(-(log(4000000/251001) - 3)^2))/208222992133378488480401936449946958981645098981683560972288 + (146796723704904810161881138002869404350341796875\*cos(1489/511)\*exp(-(log(4000000/261121) - 3)^2))/5727871751720730035816091724151206431438632781922879668224 + (1578433454046515854566505684852209368034912109375\*cos(1479/521)\*exp(-(log(4000000/271441) - 3)^2))/92308163546656839780916073811336459243369873518035652837376 + (432792971531066736471623284883784617856689453125\*cos(1469/531)\*exp(-(log(4000000/281961) - 3)^2))/39705499839224332863786054711542660985911075083929891373056 + (781510941601605562244261547066823995991455078125\*cos(1459/541)\*exp(-(log(4000000/292681) - 3)^2))/121035167793319689086160776229840460203465802220260563091456 + (32846834869385004820007191825668885973876953125\*cos(1449/551)\*exp(-(log(4000000/303601) - 3)^2))/9850040416961374867074673733847956415735858492504658673664 + (564909435654161363166387470397864186590087890625\*cos(1439/561)\*exp(-(log(4000000/314721) - 3)^2))/469840777891689487076102039677700432316068093180438284075008 - (8517446731820539945201877886973954773193359375\*cos(1429/571)\*exp(-(log(4000000/326041) - 3)^2))/44328788066842091334473282008648850851334012998180503814144 - (29751722641561678466765957004466427699462890625\*cos(1419/581)\*exp(-(log(4000000/337561) - 3)^2))/28592943095540634781428415633373013326479352057450660364288 - (503020177309787768532383450594621043540283203125\*cos(1409/591)\*exp(-(log(4000000/349281) - 3)^2))/337903961762932802834021406364991348414412209036765360553984 - (416469430058949685727047721095421264084228515625\*cos(1399/601)\*exp(-(log(4000000/361201) - 3)^2))/252824147579712326098454099129258310392002019548426714218496 - (28302865591226845508880264213034017919677734375\*cos(1389/611)\*exp(-(log(4000000/373321) - 3)^2))/17685684342713239351215323640834210537621316120154625540096 - (191040078494639285112258008235884784177490234375\*cos(1379/621)\*exp(-(log(4000000/385641) - 3)^2))/135371947966510664020757430999902750626025461460182870523904 - (198281295413515345886961397211215248226806640625\*cos(1369/631)\*exp(-(log(4000000/398161) - 3)^2))/175837382140630992386792490092219372415547983444027908292608 - (306666820031953631252653974962579220182861328125\*cos(1359/641)\*exp(-(log(4000000/410881) - 3)^2))/390552372614644298049354690894492294958190004691196870393856 - (19022957114994881269584231999861735495361328125\*cos(1349/651)\*exp(-(log(4000000/423801) - 3)^2))/46356602631577258126046161174276134337621533958352872144896 - (10737851461217393537551815468178870937255859375\*cos(1339/661)\*exp(-(log(4000000/436921) - 3)^2))/478162762176223615491528984325053882042275397326018745204736 + (96087144719811209859057769589205320989501953125\*cos(1329/671)\*exp(-(log(4000000/450241) - 3)^2))/263607232539622776186834827079129346784926345348469634367488 + (1288645947854170795571122059846423253577392578125\*cos(1319/681)\*exp(-(log(4000000/463761) - 3)^2))/1739918760335617725639810960711271551917001215414527221301248 + (12494578485718951464911832528449961389404296875\*cos(1309/691)\*exp(-(log(4000000/477481) - 3)^2))/11367693704559197219050899322488748109621285623588638949376 + (1000883624198792041061323327515525023159423828125\*cos(1299/701)\*exp(-(log(4000000/491401) - 3)^2))/697216486935238161852846483514119912621068837426927706832896 + (1997002752428193159543276720506601290343994140625\*cos(1289/711)\*exp(-(log(4000000/505521) - 3)^2))/1142988822994220481426223611497653963028108785698624088571904 + (241319803045196797223817956693364862952392578125\*cos(1279/721)\*exp(-(log(4000000/519841) - 3)^2))/118722161796955586648522860226482356536710030141249099399168 + (518187148251763173625284137204844927800048828125\*cos(1269/731)\*exp(-(log(4000000/534361) - 3)^2))/226133155467433009155309809565525828022420452816660310523904 + (7439973585475355393216019490222253479502685546875\*cos(1259/741)\*exp(-(log(4000000/549081) - 3)^2))/2947633666847619541500212274793822518752891487356886102048768 + (1454534382418870201105604414761930399461181640625\*cos(1249/751)\*exp(-(log(4000000/564001) - 3)^2))/532600243196575405928037039809394512911735210399203011330048 + (479723546988637175249680946938923076980712890625\*cos(1239/761)\*exp(-(log(4000000/579121) - 3)^2))/164656975558049825085477289724532694566084853344955634024448 + (179299186597052007160849095654132053727294921875\*cos(1229/771)\*exp(-(log(4000000/594441) - 3)^2))/58351204970984827290087041026861202612384369910135235018752 - (4308084005903375963692191409309607679712158203125\*cos(1219/781)\*exp(-(log(4000000/609961) - 3)^2))/1341953799074070454041545815129326723368025061642913569570816 - (343230590053538335934202720085998114191650390625\*cos(1209/791)\*exp(-(log(4000000/625681) - 3)^2))/103145800633021441029146589260117445054706617881955982639104 - (15943634919302413346039915903103458909236572265625\*cos(1199/801)\*exp(-(log(4000000/641601) - 3)^2))/4653391006306783044058326003809252476100437907007458286501888 - (1458526700374166815547267552484859258344482421875\*cos(1189/811)\*exp(-(log(4000000/657721) - 3)^2))/415811695788896095540041471227107209128073366509779192643584 - (6362002655273534036635490559568440223418212890625\*cos(1179/821)\*exp(-(log(4000000/674041) - 3)^2))/1780398299136647575351119847428698153611978277576835990552576 - (1477788095200985341249042504414203907172119140625\*cos(1169/831)\*exp(-(log(4000000/690561) - 3)^2))/407694375549447606222988731626618717335181425356354650898432 - (7435274093260432002590489229938905223933349609375\*cos(1159/841)\*exp(-(log(4000000/707281) - 3)^2))/2029742162680981664041688355514087528053215862317995477958656 - (997121352815427719358915373322534845426513671875\*cos(1149/851)\*exp(-(log(4000000/724201) - 3)^2))/270231472906129591483640215347278032821611754630434166669312 - (3651282298153753139092389687921427970676025390625\*cos(1139/861)\*exp(-(log(4000000/741321) - 3)^2))/985212536264948350073164893154837636172302423294470147538944 - (4530807217807142344694105517601101421953857421875\*cos(1129/871)\*exp(-(log(4000000/758641) - 3)^2))/1220289403911541467329788894428600720922080645314181897125888 - (9601175508691133284344056953377482692053466796875\*cos(1119/881)\*exp(-(log(4000000/776161) - 3)^2))/2586981598359895297318336223867463090481486858360595693961216 - (7602561358347470890556684475935245670182373046875\*cos(1109/891)\*exp(-(log(4000000/793881) - 3)^2))/2053421295364282500669946384765117983830297907818503593787392 - (1523831089080084946319388429625086206402099609375\*cos(1099/901)\*exp(-(log(4000000/811801) - 3)^2))/413307486574149749039838529873089952491637623163869649174528 - (5594976916732885587395782448924249035310791015625\*cos(1089/911)\*exp(-(log(4000000/829921) - 3)^2))/1526281102354744813959516645420686822252608491158508423610368 - (35114471273637887082971958195649911794192626953125\*cos(1079/921)\*exp(-(log(4000000/848241) - 3)^2))/9647724228843478326788700562758123772828467127076189978492928 - (109019635998290335624533109210065605486572265625\*cos(1069/931)\*exp(-(log(4000000/866761) - 3)^2))/30204897296802433862760330157815252017932172739807142739968 - (12704966960840637723185676906817312903755126953125\*cos(1059/941)\*exp(-(log(4000000/885481) - 3)^2))/3553416728485909693717175006821180719371555749815927026221056 - (19782207704092929256736363115234205581354736328125\*cos(1049/951)\*exp(-(log(4000000/904401) - 3)^2))/5590531303906482705495835661587160579679020640741494404153344 - (13658860309088745041468391086039608332590576171875\*cos(1039/961)\*exp(-(log(4000000/923521) - 3)^2))/3903444042652891378884332075725760324941259069066117367463936 - (504158018738504410650319582665811300599853515625\*cos(1029/971)\*exp(-(log(4000000/942841) - 3)^2))/145798025604117581265920186612333064621384594674853234081792 - (43680838124170175356519056540460267847071044921875\*cos(1019/981)\*exp(-(log(4000000/962361) - 3)^2))/12790071500816240636256122722204496335493110629977600292814848 - (7495020151887390332044155963559557717688720703125\*cos(1009/991)\*exp(-(log(4000000/982081) - 3)^2))/2223046039406508014397071321351348332747094138253725954736128 - (2200785880366093186478762657206946112322509765625\*cos(999/1001)\*exp(-(log(4000000/1002001) - 3)^2))/661448185758944285008801274971097413670405679170764016713728 - (5927492127126205618668313698908846034162841796875\*cos(989/1011)\*exp(-(log(4000000/1022121) - 3)^2))/1805647027173263352777120426286559669236917987847135272370176 - (16193659129169720198941133589783965721245361328125\*cos(979/1021)\*exp(-(log(4000000/1042441) - 3)^2))/5000401409983683568792857787671948288138864593057695846629376 - (8283470171857523586287760207831645677334716796875\*cos(969/1031)\*exp(-(log(4000000/1062961) - 3)^2))/2592845315475114118097077498883607835950250681888564637073408 - (7254477347814791110624454594940169292724365234375\*cos(959/1041)\*exp(-(log(4000000/1083681) - 3)^2))/2301614300767602735124415463457658704862510027514847244058624 - (4318760527265169118890906689161267182009033203125\*cos(949/1051)\*exp(-(log(4000000/1104601) - 3)^2))/1388529932399659101351572985910351072770141056125826523725824 - (17611838508984847976251305903006212861045166015625\*cos(939/1061)\*exp(-(log(4000000/1125721) - 3)^2))/5736224599448635714793171694483184156359255580856296811790336 - (3844045673657770262161932071134689739872314453125\*cos(929/1071)\*exp(-(log(4000000/1147041) - 3)^2))/1267759161469881653700806342499721434477228227716090850967552 - (18257819376386157631053861575261626913513427734375\*cos(919/1081)\*exp(-(log(4000000/1168561) - 3)^2))/6093524107906508096083862154474146318345012154708855164502016 - (580331261661883667712857681172574022444580078125\*cos(909/1091)\*exp(-(log(4000000/1190281) - 3)^2))/195862784433841086741338740824401336108081969254535641694208 - (56638407611918586961494190468650516527144287109375\*cos(899/1101)\*exp(-(log(4000000/1212201) - 3)^2))/19313692621284620268598641970166335047265608961804742833471488 - (1370499223578919466793883516736498633586181640625\*cos(889/1111)\*exp(-(log(4000000/1234321) - 3)^2))/471701254005137316301885394713126663754210175095923565133824 - (19496054072238717693332825129724507868352294921875\*cos(879/1121)\*exp(-(log(4000000/1256641) - 3)^2))/6764794682162135681560163342550897777425951737555314095947776 - (14857426937748553660910436538624737214222900390625\*cos(869/1131)\*exp(-(log(4000000/1279161) - 3)^2))/5190190771382827504421942632081866807762805976183584862502912 - (2876018855371086211431258505467727043697021484375\*cos(859/1141)\*exp(-(log(4000000/1301881) - 3)^2))/1009946364208005745544109732363086026123829229718765104529408 - (10233356334991863832999423840182511623850830078125\*cos(849/1151)\*exp(-(log(4000000/1324801) - 3)^2))/3606169196719344448824786307500111299909887393315482236878848 - (62454007557031209881204738977446644314495361328125\*cos(839/1161)\*exp(-(log(4000000/1347921) - 3)^2))/22043510966736365153407451638668107738247112220170756143710208 - (2648845187772119029286556106224856352609130859375\*cos(829/1171)\*exp(-(log(4000000/1371241) - 3)^2))/934446523399996018046164464547308448743692411385637473615872 - (3084309481636827647878652809402849627451904296875\*cos(819/1181)\*exp(-(log(4000000/1394761) - 3)^2))/1085001349814337344741879674025897847834949080160034239807488 - (33032738230135390596834609884298481088771728515625\*cos(809/1191)\*exp(-(log(4000000/1418481) - 3)^2))/11558446087036267836446330839059175498370242896904514734915584 - (22491793747522931598648521098364412013576904296875\*cos(799/1201)\*exp(-(log(4000000/1442401) - 3)^2))/7806937352877893017520405479765002367127484802956862890704896 - (821663843645113414478068266518875864806396484375\*cos(789/1211)\*exp(-(log(4000000/1466521) - 3)^2))/282087605385081504179323019332961576011724493248492010995712 - (70719600791296615825035486966086901225576904296875\*cos(779/1221)\*exp(-(log(4000000/1490841) - 3)^2))/23939178871178341635019495907875757494028509753421627054358528 - (12099558351552770321237156441665271972635009765625\*cos(769/1231)\*exp(-(log(4000000/1515361) - 3)^2))/4025167068464800204177797674695622270765865886753352799223808 - (24892329103986376942918044508392751485212646484375\*cos(759/1241)\*exp(-(log(4000000/1540081) - 3)^2))/8109884034042680708178873823272716303623246079299664536928256 - (687357644802561284921111082173732165822509765625\*cos(749/1251)\*exp(-(log(4000000/1565001) - 3)^2))/218518312964327564015081146243218758549560983152049021517824 - (26515238006898627838912582028917106495591064453125\*cos(739/1261)\*exp(-(log(4000000/1590121) - 3)^2))/8194410237753500104084756723823498680764704436835070179803136 - (13731796236812463587077909424251113023296630859375\*cos(729/1271)\*exp(-(log(4000000/1615441) - 3)^2))/4109389738070593109983417704879927219021223537818482075762688 - (12221395543345791168369634216858445390156005859375\*cos(719/1281)\*exp(-(log(4000000/1640961) - 3)^2))/3527520655751821640593493747527637600649412233004135496024064 - (7421246868483128089083921819529889409970458984375\*cos(709/1291)\*exp(-(log(4000000/1666681) - 3)^2))/2057629113544812742526708384189617199865583263235814000164864 - (30980143515978340313220865122010561293984619140625\*cos(699/1301)\*exp(-(log(4000000/1692601) - 3)^2))/8217529634817354219580091407416041653023395204366101219639296 - (48621044773483536013837659449535394005663818359375\*cos(689/1311)\*exp(-(log(4000000/1718721) - 3)^2))/12287720521444845370067052567625161261925265863935433327509504 - (4857035515925142829108796448861057454236572265625\*cos(679/1321)\*exp(-(log(4000000/1745041) - 3)^2))/1164758587498353663747026991483488643703624511531254565306368 - (4468630903026033949483471639556322994091064453125\*cos(669/1331)\*exp(-(log(4000000/1771561) - 3)^2))/1012751353531674841231352778113802942960581176813301375434752 - (113032000761917276972317563884523793832993896484375\*cos(659/1341)\*exp(-(log(4000000/1798281) - 3)^2))/24113878009861379803383754611589945060292444882391884227411968 - (2842763656705828197679467017890957996960205078125\*cos(649/1351)\*exp(-(log(4000000/1825201) - 3)^2))/568660837988010866468920510150387301974394858719151824830464 - (42128394144816064337025517345236454683713623046875\*cos(639/1361)\*exp(-(log(4000000/1852321) - 3)^2))/7872037400549549995265524476466256996356902602158708711489536 - (33511816536685859631879474475566811264904052734375\*cos(629/1371)\*exp(-(log(4000000/1879641) - 3)^2))/5827889582896386728512603276516863854870101593192030202232832 - (47477474792370878516169427879402387087256103515625\*cos(619/1381)\*exp(-(log(4000000/1907161) - 3)^2))/7656954801241358256530868863820564846127180987824064184713216 - (3609356225794931704923576316682985324872802734375\*cos(609/1391)\*exp(-(log(4000000/1934881) - 3)^2))/537975290302476030244746746057047653941103063619004692168704 - (161583429898205787755567883041724395939485595703125\*cos(599/1401)\*exp(-(log(4000000/1962801) - 3)^2))/22184942907451050413375629587080541057129309220555300785881088 - (224558167919063227697756920546129551687255859375\*cos(589/1411)\*exp(-(log(4000000/1990921) - 3)^2))/28309967029793859335880445388819676640324057829575235731456 - (8775422245718583093795699632480548123340576171875\*cos(579/1421)\*exp(-(log(4000000/2019241) - 3)^2))/1012747573106305607577492790603180864722200173425849236717568 - (98557281857026041900357708964428590375094970703125\*cos(569/1431)\*exp(-(log(4000000/2047761) - 3)^2))/10381713174392430130198191612023498012499558573885926223642624 - (70338909822529884635798015802556523458625732421875\*cos(559/1441)\*exp(-(log(4000000/2076481) - 3)^2))/6743643414664768890409963880964497244899420428033828172333056 - (18838065584777029681729462117371140369887451171875\*cos(549/1451)\*exp(-(log(4000000/2105401) - 3)^2))/1639336746975490693046512694371358172861600914403375892660224 - (34614807718426648694500046909506182677145751953125\*cos(539/1461)\*exp(-(log(4000000/2134521) - 3)^2))/2726959671034706350723879420126153244558124673538455234412544 - (43304796947161857635149939751422277351800048828125\*cos(529/1471)\*exp(-(log(4000000/2163841) - 3)^2))/3080506646943320861450157198044546244738173238132197543641088 - (92902064063650503588174623616620706010730224609375\*cos(519/1481)\*exp(-(log(4000000/2193361) - 3)^2))/5952399165114900252386227897333539288458493352926213744623616 - (5339509202221675556592581256974148740357177734375\*cos(509/1491)\*exp(-(log(4000000/2223081) - 3)^2))/307383578060827369054546172908729673088965949870215138377728 - (106942341298327838030140577517564038377749267578125\*cos(499/1501)\*exp(-(log(4000000/2253001) - 3)^2))/5518088855621068830529933673681622193114331332117628081668096 - (57371944687570582927500445950057743024727294921875\*cos(489/1511)\*exp(-(log(4000000/2283121) - 3)^2))/2647001638752846747854310130109550617446269139640976899309568 - (369311108849193393659959710379740732080301025390625\*cos(479/1521)\*exp(-(log(4000000/2313441) - 3)^2))/15199226237519999641608192995591017955664858564597557785264128 - (4716104160422227552223515544222402219425537109375\*cos(469/1531)\*exp(-(log(4000000/2343961) - 3)^2))/172720000142459450695027743835716794297597404356226079260672 - (141615588885171812835466803063105793897236572265625\*cos(459/1541)\*exp(-(log(4000000/2374681) - 3)^2))/4604122893440542523848053655424213564248247003718437050515456 - (227743069792684388073935105923733637392377685546875\*cos(449/1551)\*exp(-(log(4000000/2405601) - 3)^2))/6556753784031632058656541736214310792865839663915171204562944 - (23246032279937342240493312701661527056765869140625\*cos(439/1561)\*exp(-(log(4000000/2436721) - 3)^2))/591167322548635548903152430144946453174616927605289855746048 - (10895563498807281398449965920999973927619873046875\*cos(429/1571)\*exp(-(log(4000000/2468041) - 3)^2))/244124785550942915650431183861361798644393552645200371777536 - (560048797789566236924645243529614652837281005859375\*cos(419/1581)\*exp(-(log(4000000/2499561) - 3)^2))/11026506304268650416669371276151572219447987562818935663362048 - (99909396702160274080016015994932402240308349609375\*cos(409/1591)\*exp(-(log(4000000/2531281) - 3)^2))/1723764341043654826017571339391819926962805573108237051363328 - (30538913060080444470565804305959868787591064453125\*cos(399/1601)\*exp(-(log(4000000/2563201) - 3)^2))/460413614032556989967038384652373338688830933381783306108928 - (171435376234371582457972107093246186603475830078125\*cos(389/1611)\*exp(-(log(4000000/2595321) - 3)^2))/2251795075139080621815180385174202130868394530140377057329152 - (244280887015354509103236236920747405163945556640625\*cos(379/1621)\*exp(-(log(4000000/2627641) - 3)^2))/2786781473229187112818351990545971541538959479982638315339776 - (18636593122095598913545635125114744310512451171875\*cos(369/1631)\*exp(-(log(4000000/2660161) - 3)^2))/184055659331403449035985597928015885199879953997564628434944 - (835543517395641694970329138016218341794163330078125\*cos(359/1641)\*exp(-(log(4000000/2692881) - 3)^2))/7119187943172827491884279446839250566958824860402852003053568 - (37141031150028729901908368752402193677836181640625\*cos(349/1651)\*exp(-(log(4000000/2725801) - 3)^2))/272032340648071186818987304545656050109887892289458863603712 - (316795294919006418224391884642349189692417236328125\*cos(339/1661)\*exp(-(log(4000000/2758921) - 3)^2))/1986940738461892058640452618730930747297227427869577745268736 - (72333945331515983952149628738840913714689208984375\*cos(329/1671)\*exp(-(log(4000000/2792241) - 3)^2))/386919385176836382218706086110563670725809384857534413668352 - (359461376997741798560480525389688301042737060546875\*cos(319/1681)\*exp(-(log(4000000/2825761) - 3)^2))/1632760808636685402309923766793793241487207058853789398204416 - (95637244861490897186856617908436096646677001953125\*cos(309/1691)\*exp(-(log(4000000/2859481) - 3)^2))/367184724344521016557152631781776342665686460710999518347264 - (174371578906815811106459835525981989359343017578125\*cos(299/1701)\*exp(-(log(4000000/2893401) - 3)^2))/563089864248661489550110251961582948143493303563097561104384 - (216231149610933470688037766099408678042683837890625\*cos(289/1711)\*exp(-(log(4000000/2927521) - 3)^2))/584210065346978919774804757449505020589418515264155542355968 - (459382641035296120248656090616580144737810302734375\*cos(279/1721)\*exp(-(log(4000000/2961841) - 3)^2))/1032544031107853748968626646579825717161341283993144761778176 - (45719706067204934209214194068554416376935791015625\*cos(269/1731)\*exp(-(log(4000000/2996361) - 3)^2))/84970078300232416854321686944622487774091026026760675262464 - (73913542031278063953763619703945081391817138671875\*cos(259/1741)\*exp(-(log(4000000/3031081) - 3)^2))/112836459731939599111558281533340770455806954867560292548608 - (274293625615204815588613246404687789869126708984375\*cos(249/1751)\*exp(-(log(4000000/3066001) - 3)^2))/341508710881850304524924515726124239731488857389258976002048 - (1743918149404043101592917648019768903221697509765625\*cos(239/1761)\*exp(-(log(4000000/3101121) - 3)^2))/1757133239522125617928319342118061318578323167568442748305408 - (21985856784019225662297212091474083593397705078125\*cos(229/1771)\*exp(-(log(4000000/3136441) - 3)^2))/17776496113755776218580609431149003617675748510959184904192 - (651534850240083180798652789012180019045801025390625\*cos(219/1781)\*exp(-(log(4000000/3171961) - 3)^2))/418847165293796131820494042999314552474339862889027459874816 - (1033730068868532871163572718348362770901747802734375\*cos(209/1791)\*exp(-(log(4000000/3207681) - 3)^2))/523049382144864334895473898189306451705955362484104078557184 - (728515285962619728044388475004553746941628662109375\*cos(199/1801)\*exp(-(log(4000000/3243601) - 3)^2))/286911878271612667237130585936734815466054214971920845111296 - (13744236232982919562572544629555246852871337890625\*cos(189/1811)\*exp(-(log(4000000/3279721) - 3)^2))/4161470092929140549259276849018381148846426953150948704256 - (2438090414712431613927796267378423318665005615234375\*cos(179/1821)\*exp(-(log(4000000/3316041) - 3)^2))/559803556082020456941509234241645926239480365862975835209728 - (428816267289031995364594821670017133407364013671875\*cos(169/1831)\*exp(-(log(4000000/3352561) - 3)^2))/73528948820714195086291322501175135647655853071606908715008 - (129220549916342603260684438509804849533089111328125\*cos(159/1841)\*exp(-(log(4000000/3389281) - 3)^2))/16264151432751665166353287061268718359214238904099230711808 - (715118306597720539841373132092170932011188232421875\*cos(149/1851)\*exp(-(log(4000000/3426201) - 3)^2))/64790317085052930314047820551318500910741836021022297423872 - (1004535416593559769753920974875995851910947509765625\*cos(139/1861)\*exp(-(log(4000000/3463321) - 3)^2))/64069463982293522079280044864859542509702172265048006721536 - (528869468139255113422664043966264154509783447265625\*cos(129/1871)\*exp(-(log(4000000/3500641) - 3)^2))/23144210706189207656273489863832419961330791585602116517888 - (477070516299693953656706632495116436714789794921875\*cos(119/1881)\*exp(-(log(4000000/3538161) - 3)^2))/13903268591152247561141433564445145871352751052181852913664 - (73179746528398957290676858141259316360508056640625\*cos(109/1891)\*exp(-(log(4000000/3575881) - 3)^2))/1371184823678971550631748773099460089218903347426666479616 - (1230937674849138104747364199788984014254262939453125\*cos(99/1901)\*exp(-(log(4000000/3613801) - 3)^2))/14219186678361155834324966410230008432107288912852414365696 - (277160361727693795864040908971871208647780029296875\*cos(89/1911)\*exp(-(log(4000000/3651921) - 3)^2))/1875638622187763503473042777995484414135644702587194703872 - (1358374023824677699856511920264903903140910888671875\*cos(79/1921)\*exp(-(log(4000000/3690241) - 3)^2))/5055236421992949237216706770791304604407656620643609214976 - (356470360642477817564360122958983839477763427734375\*cos(69/1931)\*exp(-(log(4000000/3728761) - 3)^2))/673109403100709720157319396298169645134394269502856495104 - (4488014191096834873231245156282950766676719482421875\*cos(59/1941)\*exp(-(log(4000000/3767481) - 3)^2))/3867861037567156251417893435373363360208157259406579335168 - (112058000160509724651738695298523068318969482421875\*cos(49/1951)\*exp(-(log(4000000/3806401) - 3)^2))/38108997137045637817421075848595857132546901786507608064 - (1644372003924451115810453881145238526041452880859375\*cos(39/1961)\*exp(-(log(4000000/3845521) - 3)^2))/178435437203612532166009258446825019489418123858921127936 - (646032779434229461994338613775507245187868896484375\*cos(29/1971)\*exp(-(log(4000000/3884841) - 3)^2))/15924309393509944054461693714625414957581963682765602816 - (257718304490604253856303060724623758423643310546875\*cos(19/1981)\*exp(-(log(4000000/3924361) - 3)^2))/766460848771851400466973219578064265025981351710425088 - (944132296952846465640511907490120407743994873046875\*cos(9/1991)\*exp(-(log(4000000/3964081) - 3)^2))/66939678617548465471016505990322533288751399465648128 - (327410480114011430816931413190521240234375\*exp(-(log(4000000) - 3)^2)\*sin(1999))/73676351161404798246104072192 - (644141392032548843746169363504889617919921875\*exp(-(log(4000000/121) - 3)^2)\*sin(1989/11))/30943564529412912026691910712705383661568 - (271... Output truncated. Text exceeds maximum line length for Command Window display.  Elapsed time is 7.770465 seconds.  cterrs =  (3996006995000500\*cos(1999)\*exp(-(log(4000000) - 3)^2))/11988003 + (7909723864288679500\*cos(1989/11)\*exp(-(log(4000000/121) - 3)^2))/3801797930001357 + (7834162543688759500\*cos(1979/21)\*exp(-(log(4000000/441) - 3)^2))/94963149769159917 + (7761274435014239500\*cos(1969/31)\*exp(-(log(4000000/961) - 3)^2))/655642159864885677 - (7691000191953119500\*cos(1959/41)\*exp(-(log(4000000/1681) - 3)^2))/2613026693478170637 + (7623280708073399500\*cos(1949/51)\*exp(-(log(4000000/2601) - 3)^2))/7663155751531606797 + (7558057116823079500\*cos(1939/61)\*exp(-(log(4000000/3721) - 3)^2))/18471571996113386157 - (7495270791530159500\*cos(1929/71)\*exp(-(log(4000000/5041) - 3)^2))/38851669105101300717 + (7434863345402639500\*cos(1919/81)\*exp(-(log(4000000/6561) - 3)^2))/73921585514306742477 - (7376776631528519500\*cos(1909/91)\*exp(-(log(4000000/8281) - 3)^2))/130240484009538703437 + (7320952742875799500\*cos(1899/101)\*exp(-(log(4000000/10201) - 3)^2))/215925044534987775597 - (7267334012292479500\*cos(1889/111)\*exp(-(log(4000000/12321) - 3)^2))/340746985488330150957 - (7215863012506559500\*cos(1879/121)\*exp(-(log(4000000/14641) - 3)^2))/516212416676951621517 - (7166482556126039500\*cos(1869/131)\*exp(-(log(4000000/17161) - 3)^2))/755623815013691579277 + (7119135695638919500\*cos(1859/141)\*exp(-(log(4000000/19881) - 3)^2))/1074125401934507016237 + (7073765723413199500\*cos(1849/151)\*exp(-(log(4000000/22801) - 3)^2))/1488732689424456524397 + (7030316171696879500\*cos(1839/161)\*exp(-(log(4000000/25921) - 3)^2))/2018346949442404295757 - (6988730812617959500\*cos(1829/171)\*exp(-(log(4000000/29241) - 3)^2))/2683755349438844122317 - (6948953658184439500\*cos(1819/181)\*exp(-(log(4000000/32761) - 3)^2))/3507617484565243396077 - (6910928960284319500\*cos(1809/191)\*exp(-(log(4000000/36481) - 3)^2))/4514439025077307109037 - (6874601210685599500\*cos(1799/201)\*exp(-(log(4000000/40401) - 3)^2))/5730533185338561853197 - (6839915141036279500\*cos(1789/211)\*exp(-(log(4000000/44521) - 3)^2))/7183970708734659820557 - (6806815722864359500\*cos(1779/221)\*exp(-(log(4000000/48841) - 3)^2))/8904519050712802803117 + (6775248167577839500\*cos(1769/231)\*exp(-(log(4000000/53361) - 3)^2))/10923571430064686192877 + (6745157926464719500\*cos(1759/241)\*exp(-(log(4000000/58081) - 3)^2))/13274066406475362981837 + (6716490690692999500\*cos(1749/251)\*exp(-(log(4000000/63001) - 3)^2))/15990398630264427761997 + (6689192391310679500\*cos(1739/261)\*exp(-(log(4000000/68121) - 3)^2))/19108321398149920725357 + (6663209199245759500\*cos(1729/271)\*exp(-(log(4000000/73441) - 3)^2))/22664841636769351663917 + (6638487525306239500\*cos(1719/281)\*exp(-(log(4000000/78961) - 3)^2))/26698107923596243969677 + (6614974020180119500\*cos(1709/291)\*exp(-(log(4000000/84681) - 3)^2))/31247292142794598634637 + (6592615574435399500\*cos(1699/301)\*exp(-(log(4000000/90601) - 3)^2))/36352465361457678250797 + (6571359318520079500\*cos(1689/311)\*exp(-(log(4000000/96721) - 3)^2))/42054468499581511010157 + (6551152622762159500\*cos(1679/321)\*exp(-(log(4000000/103041) - 3)^2))/48394778355027514704717 + (6531943097369639500\*cos(1669/331)\*exp(-(log(4000000/109561) - 3)^2))/55415369532632640726477 + (6513678592430519500\*cos(1659/341)\*exp(-(log(4000000/116281) - 3)^2))/63158572814529438067437 - (6496307197912799500\*cos(1649/351)\*exp(-(log(4000000/123201) - 3)^2))/71666930496642437319597 - (6479777243664479500\*cos(1639/361)\*exp(-(log(4000000/130321) - 3)^2))/80983049204231254674957 - (6464037299413559500\*cos(1629/371)\*exp(-(log(4000000/137641) - 3)^2))/91149450687254815925517 - (6449036174768039500\*cos(1619/381)\*exp(-(log(4000000/145161) - 3)^2))/102208421084235100463277 - (6434722919215919500\*cos(1609/391)\*exp(-(log(4000000/152881) - 3)^2))/114201859131202805280237 - (6421046822125199500\*cos(1599/401)\*exp(-(log(4000000/160801) - 3)^2))/127171123780211328968397 - (6407957412743879500\*cos(1589/411)\*exp(-(log(4000000/168921) - 3)^2))/141156881679809475719757 - (6395404460199959500\*cos(1579/421)\*exp(-(log(4000000/177241) - 3)^2))/156198954957767279326317 - 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3)^2))/401475684747078597553677 - (6268656061782119500\*cos(1459/541)\*exp(-(log(4000000/292681) - 3)^2))/431790870770710813598637 - (6258615184172399500\*cos(1449/551)\*exp(-(log(4000000/303601) - 3)^2))/463536999675376539394797 - (6248432718592079500\*cos(1439/561)\*exp(-(log(4000000/314721) - 3)^2))/496727201008045743134157 - (6238062032369159500\*cos(1429/571)\*exp(-(log(4000000/326041) - 3)^2))/531371775192603382608717 - (6227456732711639500\*cos(1419/581)\*exp(-(log(4000000/337561) - 3)^2))/567478096158327549210477 - (6216570666707519500\*cos(1409/591)\*exp(-(log(4000000/349281) - 3)^2))/605050519904937531931437 - (6205357921324799500\*cos(1399/601)\*exp(-(log(4000000/361201) - 3)^2))/644090299226778201363597 - (6193772823411479500\*cos(1389/611)\*exp(-(log(4000000/373321) - 3)^2))/684595504806611113698957 - (6181769939695559500\*cos(1379/621)\*exp(-(log(4000000/385641) - 3)^2))/726560952877386734729517 - (6169304076785039500\*cos(1369/631)\*exp(-(log(4000000/398161) - 3)^2))/769978139638276183847277 - (6156330281167919500\*cos(1359/641)\*exp(-(log(4000000/410881) - 3)^2))/814835182599144898044237 - (6142803839212199500\*cos(1349/651)\*exp(-(log(4000000/423801) - 3)^2))/861116769015554615912397 - (6128680277165879500\*cos(1339/661)\*exp(-(log(4000000/436921) - 3)^2))/908804111564284081643757 - (6113915361156959500\*cos(1329/671)\*exp(-(log(4000000/450241) - 3)^2))/957874911397262869030317 - (6098465097193439500\*cos(1319/681)\*exp(-(log(4000000/463761) - 3)^2))/1008303328699716725464077 - (6082285731163319500\*cos(1309/691)\*exp(-(log(4000000/477481) - 3)^2))/1060059960866226835937037 - (6065333748834599500\*cos(1299/701)\*exp(-(log(4000000/491401) - 3)^2))/1113111828396309407041197 - (6047565875855279500\*cos(1289/711)\*exp(-(log(4000000/505521) - 3)^2))/1167422368599025970968557 - (6028939077753359500\*cos(1279/721)\*exp(-(log(4000000/519841) - 3)^2))/1222951437184038809511117 - (6009410559936839500\*cos(1269/731)\*exp(-(log(4000000/534361) - 3)^2))/1279655317804429898060877 - (5988937767693719500\*cos(1259/741)\*exp(-(log(4000000/549081) - 3)^2))/1337486739604505769609837 - (5967478386191999500\*cos(1249/751)\*exp(-(log(4000000/564001) - 3)^2))/1396394902813714698749997 - (5944990340479679500\*cos(1239/761)\*exp(-(log(4000000/579121) - 3)^2))/1456325512415706605673357 - (5921431795484759500\*cos(1229/771)\*exp(-(log(4000000/594441) - 3)^2))/1517220819909470080171917 + (5896761156015239500\*cos(1219/781)\*exp(-(log(4000000/609961) - 3)^2))/1579019673167384925637677 + (5870937066759119500\*cos(1209/791)\*exp(-(log(4000000/625681) - 3)^2))/1641657574382932623062637 + (5843918412284399500\*cos(1199/801)\*exp(-(log(4000000/641601) - 3)^2))/1705066746088711115038797 + (5815664317039079500\*cos(1189/811)\*exp(-(log(4000000/657721) - 3)^2))/1769176205213304309758157 + (5786134145351159500\*cos(1179/821)\*exp(-(log(4000000/674041) - 3)^2))/1833911845133460705012717 + (5755287501428639500\*cos(1169/831)\*exp(-(log(4000000/690561) - 3)^2))/1899196525665939532194477 + (5723084229359519500\*cos(1159/841)\*exp(-(log(4000000/707281) - 3)^2))/1964950170931286820295437 + (5689484413111799500\*cos(1149/851)\*exp(-(log(4000000/724201) - 3)^2))/2031089875009707779907597 + (5654448376533479500\*cos(1139/861)\*exp(-(log(4000000/741321) - 3)^2))/2097530015297105907222957 + (5617936683352559500\*cos(1129/871)\*exp(-(log(4000000/758641) - 3)^2))/2164182373457263208033517 + (5579910137177039500\*cos(1119/881)\*exp(-(log(4000000/776161) - 3)^2))/2230956263854039941731277 + (5540329781494919500\*cos(1109/891)\*exp(-(log(4000000/793881) - 3)^2))/2297758669335376285308237 + (5499156899674199500\*cos(1099/901)\*exp(-(log(4000000/811801) - 3)^2))/2364494384228782317356397 + (5456353014962879500\*cos(1089/911)\*exp(-(log(4000000/829921) - 3)^2))/2431066164395906722067757 + (5411879890488959500\*cos(1079/921)\*exp(-(log(4000000/848241) - 3)^2))/2497374884181678613234317 + (5365699529260439500\*cos(1069/931)\*exp(-(log(4000000/866761) - 3)^2))/2563319700081420878248077 + (5317774174165319500\*cos(1059/941)\*exp(-(log(4000000/885481) - 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3)^2))/3234675534719763027026637 + (4664867258771399500\*cos(949/1051)\*exp(-(log(4000000/1104601) - 3)^2))/3288012592510476905182797 + (4593144238861079500\*cos(939/1061)\*exp(-(log(4000000/1125721) - 3)^2))/3339603834424085210882157 + (4519207211708159500\*cos(929/1071)\*exp(-(log(4000000/1147041) - 3)^2))/3389344790222039981916717 + (4443021778520639500\*cos(919/1081)\*exp(-(log(4000000/1168561) - 3)^2))/3437132375876621589678477 + (4364553780386519500\*cos(909/1091)\*exp(-(log(4000000/1190281) - 3)^2))/3482865130837442803159437 + (4283769298273799500\*cos(899/1101)\*exp(-(log(4000000/1212201) - 3)^2))/3526443457163009172951597 + (4200634653030479500\*cos(889/1111)\*exp(-(log(4000000/1234321) - 3)^2))/3567769860123006135246957 + (4115116405384559500\*cos(879/1121)\*exp(-(log(4000000/1256641) - 3)^2))/3606749189864887235837517 + (4027181355944039500\*cos(869/1131)\*exp(-(log(4000000/1279161) - 3)^2))/3643288883726241874115277 + (3936796545196919500\*cos(859/1141)\*exp(-(log(4000000/1301881) - 3)^2))/3677299208762324967072237 + (3843929253511199500\*cos(849/1151)\*exp(-(log(4000000/1324801) - 3)^2))/3708693504046034933300397 + (3748547001134879500\*cos(839/1161)\*exp(-(log(4000000/1347921) - 3)^2))/3737388422285530396991757 + (3650617548195959500\*cos(829/1171)\*exp(-(log(4000000/1371241) - 3)^2))/3763304170292580011938317 + (3550108894702439500\*cos(819/1181)\*exp(-(log(4000000/1394761) - 3)^2))/3786364747822643805532077 + (3446989280542319500\*cos(809/1191)\*exp(-(log(4000000/1418481) - 3)^2))/3806498184295588442765037 + (3341227185483599500\*cos(799/1201)\*exp(-(log(4000000/1442401) - 3)^2))/3823636772893842810229197 + (3232791329174279500\*cos(789/1211)\*exp(-(log(4000000/1466521) - 3)^2))/3837717301522704320116557 + (3121650671142359500\*cos(779/1221)\*exp(-(log(4000000/1490841) - 3)^2))/3848681280105410334219117 + (3007774410795839500\*cos(769/1231)\*exp(-(log(4000000/1515361) - 3)^2))/3856475163673493107928877 + (2891131987422719500\*cos(759/1241)\*exp(-(log(4000000/1540081) - 3)^2))/3861050570700840654237837 + (2771693080190999500\*cos(749/1251)\*exp(-(log(4000000/1565001) - 3)^2))/3862364496117789927737997 + (2649427608148679500\*cos(739/1261)\*exp(-(log(4000000/1590121) - 3)^2))/3860379518429482728621357 + (2524305730223759500\*cos(729/1271)\*exp(-(log(4000000/1615441) - 3)^2))/3855064000350618726679917 + (2396297845224239500\*cos(719/1281)\*exp(-(log(4000000/1640961) - 3)^2))/3846392282356644005305677 + (2265374591838119500\*cos(709/1291)\*exp(-(log(4000000/1666681) - 3)^2))/3834344868539317525490637 + (2131506848633399500\*cos(699/1301)\*exp(-(log(4000000/1692601) - 3)^2))/3818908604142501909826797 + (1994665734058079500\*cos(689/1311)\*exp(-(log(4000000/1718721) - 3)^2))/3800076844141928946506157 + (1854822606440159500\*cos(679/1321)\*exp(-(log(4000000/1745041) - 3)^2))/3777849612220594213320717 + (1711949063987639500\*cos(669/1331)\*exp(-(log(4000000/1771561) - 3)^2))/3752233749479339221662477 + (1566016944788519500\*cos(659/1341)\*exp(-(log(4000000/1798281) - 3)^2))/3723243052210083480523437 + (1416998326810799500\*cos(649/1351)\*exp(-(log(4000000/1825201) - 3)^2))/3690898398047072880495597 + (1264865527902479500\*cos(639/1361)\*exp(-(log(4000000/1852321) - 3)^2))/3655227859799414797770957 + (1109591105791559500\*cos(629/1371)\*exp(-(log(4000000/1879641) - 3)^2))/3616266806256074318141517 + (951147858086039500\*cos(619/1381)\*exp(-(log(4000000/1907161) - 3)^2))/3574057989242409980999277 + (789508822273919500\*cos(609/1391)\*exp(-(log(4000000/1934881) - 3)^2))/3528651616195231443336237 + (624647275723199500\*cos(599/1401)\*exp(-(log(4000000/1962801) - 3)^2))/3480105407511265463744397 + (456536735681879500\*cos(589/1411)\*exp(-(log(4000000/1990921) - 3)^2))/3428484637911820606415757 + (285150959277959500\*cos(579/1421)\*exp(-(log(4000000/2019241) - 3)^2))/3373862161054345065142317 + (110463943519439500\*cos(569/1431)\*exp(-(log(4000000/2047761) - 3)^2))/3316318416609476007316077 - (67550074705680500\*cos(559/1441)\*exp(-(log(4000000/2076481) - 3)^2))/3255941419010082837929037 - (248916618629400500\*cos(549/1451)\*exp(-(log(4000000/2105401) - 3)^2))/3192826727066710783573197 - (433660971603720500\*cos(539/1461)\*exp(-(log(4000000/2134521) - 3)^2))/3127077393631735196440557 - (621808177100640500\*cos(529/1471)\*exp(-(log(4000000/2163841) - 3)^2))/3058803894482440978323117 - (813383038712160500\*cos(519/1481)\*exp(-(log(4000000/2193361) - 3)^2))/2988124035581145524612877 - (1008410120150280500\*cos(509/1491)\*exp(-(log(4000000/2223081) - 3)^2))/2915162837858387588301837 - (1206913745247000500\*cos(499/1501)\*exp(-(log(4000000/2253001) - 3)^2))/2840052398653108463981997 - (1408917997954320500\*cos(489/1511)\*exp(-(log(4000000/2283121) - 3)^2))/2762931728931655891845357 - (1614446722344240500\*cos(479/1521)\*exp(-(log(4000000/2313441) - 3)^2))/2683946565395345081683917 - (1823523522608760500\*cos(469/1531)\*exp(-(log(4000000/2343961) - 3)^2))/2603249156574215256889677 - (2036171763059880500\*cos(459/1541)\*exp(-(log(4000000/2374681) - 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3)^2))/833708832528154016865837 - (7365616727310000500\*cos(249/1751)\*exp(-(log(4000000/3066001) - 3)^2))/762342314634864114725997 - (7662262305682320500\*cos(239/1761)\*exp(-(log(4000000/3101121) - 3)^2))/693604236939552289569357 - (7962950496537240500\*cos(229/1771)\*exp(-(log(4000000/3136441) - 3)^2))/627654298855989291187917 - (8267698907066760500\*cos(219/1781)\*exp(-(log(4000000/3171961) - 3)^2))/564642022410847482973677 - (8576524904582880500\*cos(209/1791)\*exp(-(log(4000000/3207681) - 3)^2))/504705505623123305918637 - (8889445616517600500\*cos(199/1801)\*exp(-(log(4000000/3243601) - 3)^2))/447970120933704062614797 - (9206477930422920500\*cos(189/1811)\*exp(-(log(4000000/3279721) - 3)^2))/394547157444029421254157 - (9527638493970840500\*cos(179/1821)\*exp(-(log(4000000/3316041) - 3)^2))/344532405710702039628717 - (9852943714953360500\*cos(169/1831)\*exp(-(log(4000000/3352561) - 3)^2))/298004683830805709130477 - (10182409761282480500\*cos(159/1841)\*exp(-(log(4000000/3389281) - 3)^2))/255024303540593418751437 - (10516052560990200500\*cos(149/1851)\*exp(-(log(4000000/3426201) - 3)^2))/215631475038111739083597 - (10853887802228520500\*cos(139/1861)\*exp(-(log(4000000/3463321) - 3)^2))/179844649228231926318957 - (11195930933269440500\*cos(129/1871)\*exp(-(log(4000000/3500641) - 3)^2))/147658796076462146249517 - (11542197162504960500\*cos(119/1881)\*exp(-(log(4000000/3538161) - 3)^2))/119043617745819218267277 - (11892701458447080500\*cos(109/1891)\*exp(-(log(4000000/3575881) - 3)^2))/93941695178942279364237 - (12247458549727800500\*cos(99/1901)\*exp(-(log(4000000/3613801) - 3)^2))/72266566775534768132397 - (12606482925099120500\*cos(89/1911)\*exp(-(log(4000000/3651921) - 3)^2))/53900737803125128763757 - (12969788833433040500\*cos(79/1921)\*exp(-(log(4000000/3690241) - 3)^2))/38693619167040635050317 - (13337390283721560500\*cos(69/1931)\*exp(-(log(4000000/3728761) - 3)^2))/26459394153392734384077 - (13709301045076680500\*cos(59/1941)\*exp(-(log(4000000/3767481) - 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3)^2)\*sin(1689/311))/80061202712428083 + (6070963000000\*exp(-(log(4000000/103041) - 3)^2)\*sin(1679/321))/89793060984281763 + (6010993000000\*exp(-(log(4000000/109561) - 3)^2)\*sin(1669/331))/100310386364164443 + (5951023000000\*exp(-(log(4000000/116281) - 3)^2)\*sin(1659/341))/111643011485436123 - (5891053000000\*exp(-(log(4000000/123201) - 3)^2)\*sin(1649/351))/123820066200256803 - (5831083000000\*exp(-(log(4000000/130321) - 3)^2)\*sin(1639/361))/136869906155586483 - (5771113000000\*exp(-(log(4000000/137641) - 3)^2)\*sin(1629/371))/150820043529185163 - (5711143000000\*exp(-(log(4000000/145161) - 3)^2)\*sin(1619/381))/165697079925612843 - (5651173000000\*exp(-(log(4000000/152881) - 3)^2)\*sin(1609/391))/181526641432229523 - (5591203000000\*exp(-(log(4000000/160801) - 3)^2)\*sin(1599/401))/198333315835195203 - (5531233000000\*exp(-(log(4000000/168921) - 3)^2)\*sin(1589/411))/216140591995469883 - (5471263000000\*exp(-(log(4000000/177241) - 3)^2)\*sin(1579/421))/234970801384813563 - (5411293000000\*exp(-(log(4000000/185761) - 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3)^2)\*sin(1219/781))/1658566165007300043 + (3252373000000\*exp(-(log(4000000/625681) - 3)^2)\*sin(1209/791))/1716642223340676723 + (3192403000000\*exp(-(log(4000000/641601) - 3)^2)\*sin(1199/801))/1775373304312802403 + (3132433000000\*exp(-(log(4000000/657721) - 3)^2)\*sin(1189/811))/1834714024896637083 + (3072463000000\*exp(-(log(4000000/674041) - 3)^2)\*sin(1179/821))/1894617277315940763 + (3012493000000\*exp(-(log(4000000/690561) - 3)^2)\*sin(1169/831))/1955034259141273443 + (2952523000000\*exp(-(log(4000000/707281) - 3)^2)\*sin(1159/841))/2015914505545995123 + (2892553000000\*exp(-(log(4000000/724201) - 3)^2)\*sin(1149/851))/2077205923722265803 + (2832583000000\*exp(-(log(4000000/741321) - 3)^2)\*sin(1139/861))/2138854829457045483 + (2772613000000\*exp(-(log(4000000/758641) - 3)^2)\*sin(1129/871))/2200805985868094163 + (2712643000000\*exp(-(log(4000000/776161) - 3)^2)\*sin(1119/881))/2263002644299971843 + (2652673000000\*exp(-(log(4000000/793881) - 3)^2)\*sin(1109/891))/2325386587380038523 + (2592703000000\*exp(-(log(4000000/811801) - 3)^2)\*sin(1099/901))/2387898174234454203 + (2532733000000\*exp(-(log(4000000/829921) - 3)^2)\*sin(1089/911))/2450476387864178883 + (2472763000000\*exp(-(log(4000000/848241) - 3)^2)\*sin(1079/921))/2513058884680972563 + (2412793000000\*exp(-(log(4000000/866761) - 3)^2)\*sin(1069/931))/2575582046203395243 + (2352823000000\*exp(-(log(4000000/885481) - 3)^2)\*sin(1059/941))/2637981032912806923 + (2292853000000\*exp(-(log(4000000/904401) - 3)^2)\*sin(1049/951))/2700189840269367603 + (2232883000000\*exp(-(log(4000000/923521) - 3)^2)\*sin(1039/961))/2762141356888037283 + (2172913000000\*exp(-(log(4000000/942841) - 3)^2)\*sin(1029/971))/2823767424874575963 + (2112943000000\*exp(-(log(4000000/962361) - 3)^2)\*sin(1019/981))/2884998902321543643 + (2052973000000\*exp(-(log(4000000/982081) - 3)^2)\*sin(1009/991))/2945765727964300323 + (1993003000000\*exp(-(log(4000000/1002001) - 3)^2)\*sin(999/1001))/3005996987997006003 + (1933033000000\*exp(-(log(4000000/1022121) - 3)^2)\*sin(989/1011))/3065620985048620683 + (1873063000000\*exp(-(log(4000000/1042441) - 3)^2)\*sin(979/1021))/3124565309318904363 + (1813093000000\*exp(-(log(4000000/1062961) - 3)^2)\*sin(969/1031))/3182756911874417043 + (1753123000000\*exp(-(log(4000000/1083681) - 3)^2)\*sin(959/1041))/3240122180104518723 + (1693153000000\*exp(-(log(4000000/1104601) - 3)^2)\*sin(949/1051))/3296587015337369403 + (1633183000000\*exp(-(log(4000000/1125721) - 3)^2)\*sin(939/1061))/3352076912615929083 + (1573213000000\*exp(-(log(4000000/1147041) - 3)^2)\*sin(929/1071))/3406517042633957763 + (1513243000000\*exp(-(log(4000000/1168561) - 3)^2)\*sin(919/1081))/3459832335832015443 + (1453273000000\*exp(-(log(4000000/1190281) - 3)^2)\*sin(909/1091))/3511947568653462123 + (1393303000000\*exp(-(log(4000000/1212201) - 3)^2)\*sin(899/1101))/3562787451960457803 + (1333333000000\*exp(-(log(4000000/1234321) - 3)^2)\*sin(889/1111))/3612276721609962483 + (1273363000000\*exp(-(log(4000000/1256641) - 3)^2)\*sin(879/1121))/3660340231189736163 + (1213393000000\*exp(-(log(4000000/1279161) - 3)^2)\*sin(869/1131))/3706903046914338843 + (1153423000000\*exp(-(log(4000000/1301881) - 3)^2)\*sin(859/1141))/3751890544681130523 + (1093453000000\*exp(-(log(4000000/1324801) - 3)^2)\*sin(849/1151))/3795228509286271203 + (1033483000000\*exp(-(log(4000000/1347921) - 3)^2)\*sin(839/1161))/3836843235800720883 + (973513000000\*exp(-(log(4000000/1371241) - 3)^2)\*sin(829/1171))/3876661633106239563 + (913543000000\*exp(-(log(4000000/1394761) - 3)^2)\*sin(819/1181))/3914611329591387243 + (853573000000\*exp(-(log(4000000/1418481) - 3)^2)\*sin(809/1191))/3950620781007523923 + (793603000000\*exp(-(log(4000000/1442401) - 3)^2)\*sin(799/1201))/3984619380484809603 + (733633000000\*exp(-(log(4000000/1466521) - 3)^2)\*sin(789/1211))/4016537570708204283 + (673663000000\*exp(-(log(4000000/1490841) - 3)^2)\*sin(779/1221))/4046306958253467963 + (613693000000\*exp(-(log(4000000/1515361) - 3)^2)\*sin(769/1231))/4073860430083160643 + (553723000000\*exp(-(log(4000000/1540081) - 3)^2)\*sin(759/1241))/4099132272202642323 + (493753000000\*exp(-(log(4000000/1565001) - 3)^2)\*sin(749/1251))/4122058290476073003 + (433783000000\*exp(-(log(4000000/1590121) - 3)^2)\*sin(739/1261))/4142575933602412683 + (373813000000\*exp(-(log(4000000/1615441) - 3)^2)\*sin(729/1271))/4160624418251421363 + (313843000000\*exp(-(log(4000000/1640961) - 3)^2)\*sin(719/1281))/4176144856359659043 + (253873000000\*exp(-(log(4000000/1666681) - 3)^2)\*sin(709/1291))/4189080384586485723 + (193903000000\*exp(-(log(4000000/1692601) - 3)^2)\*sin(699/1301))/4199376295930061403 + (133933000000\*exp(-(log(4000000/1718721) - 3)^2)\*sin(689/1311))/4206980173503346083 + (73963000000\*exp(-(log(4000000/1745041) - 3)^2)\*sin(679/1321))/4211842026470099763 + (13993000000\*exp(-(log(4000000/1771561) - 3)^2)\*sin(669/1331))/4213914428140882443 - (45977000000\*exp(-(log(4000000/1798281) - 3)^2)\*sin(659/1341))/4213152656229054123 - (105947000000\*exp(-(log(4000000/1825201) - 3)^2)\*sin(649/1351))/4209514835266774803 - (165917000000\*exp(-(log(4000000/1852321) - 3)^2)\*sin(639/1361))/4202962081181004483 - (225887000000\*exp(-(log(4000000/1879641) - 3)^2)\*sin(629/1371))/4193458648029503163 - (285857000000\*exp(-(log(4000000/1907161) - 3)^2)\*sin(619/1381))/4180972076896830843 - (345827000000\*exp(-(log(4000000/1934881) - 3)^2)\*sin(609/1391))/4165473346950347523 - (405797000000\*exp(-(log(4000000/1962801) - 3)^2)\*sin(599/1401))/4146937028656213203 - (465767000000\*exp(-(log(4000000/1990921) - 3)^2)\*sin(589/1411))/4125341439155387883 - (525737000000\*exp(-(log(4000000/2019241) - 3)^2)\*sin(579/1421))/4100668799799631563 - (585707000000\*exp(-(log(4000000/2047761) - 3)^2)\*sin(569/1431))/4072905395847504243 - (645677000000\*exp(-(log(4000000/2076481) - 3)^2)\*sin(559/1441))/4042041738320365923 - (705647000000\*exp(-(log(4000000/2105401) - 3)^2)\*sin(549/1451))/4008072728018376603 - (765617000000\*exp(-(log(4000000/2134521) - 3)^2)\*sin(539/1461))/3970997821696496283 - (825587000000\*exp(-(log(4000000/2163841) - 3)^2)\*sin(529/1471))/3930821200400484963 - (885557000000\*exp(-(log(4000000/2193361) - 3)^2)\*sin(519/1481))/3887551939962902643 - (945527000000\*exp(-(log(4000000/2223081) - 3)^2)\*sin(509/1491))/3841204183659109323 - (1005497000000\*exp(-(log(4000000/2253001) - 3)^2)\*sin(499/1501))/3791797317023265003 - (1065467000000\*exp(-(log(4000000/2283121) - 3)^2)\*sin(489/1511))/3739356144824329683 - (1125437000000\*exp(-(log(4000000/2313441) - 3)^2)\*sin(479/1521))/3683911070202063363 - (1185407000000\*exp(-(log(4000000/2343961) - 3)^2)\*sin(469/1531))/3625498275963026043 - (1245377000000\*exp(-(log(4000000/2374681) - 3)^2)\*sin(459/1541))/3564159908036577723 - (1305347000000\*exp(-(log(4000000/2405601) - 3)^2)\*sin(449/1551))/3499944261090878403 - (1365317000000\*exp(-(log(4000000/2436721) - 3)^2)\*sin(439/1561))/3432905966308888083 - (1425287000000\*exp(-(log(4000000/2468041) - 3)^2)\*si... Output truncated. Text exceeds maximum line length for Command Window display.  Elapsed time is 4.244604 seconds.  ans =  (202902124564282614564327272471945294243211500275375\*cos(1959/41)\*exp(-(log(4000000/1681) - 3)^2))/43559874678022405967195044983620296421560031379456 - (20200782543382647650837752032973440453305541388375\*cos(1989/11)\*exp(-(log(4000000/121) - 3)^2))/84626781042378137778999039310410136141430784 - (37510639626312294330635307934147032338669619867125\*cos(1979/21)\*exp(-(log(4000000/441) - 3)^2))/47652486776428056359299326063014040101720162304 - (178897572912944607686387442165639144262348381583375\*cos(1969/31)\*exp(-(log(4000000/961) - 3)^2))/5412959970242655501003979641672763877300291764224 - (122731859439523974219415953075101100259043686375\*cos(1999)\*exp(-(log(4000000) - 3)^2))/220918538957472287540943060467712 - (140228076576615745836928515525326578974618107365375\*cos(1949/51)\*exp(-(log(4000000/2601) - 3)^2))/113522456281022348066045326043709190339793818484736 - (289571742520832894224133783986364447900703209904625\*cos(1939/61)\*exp(-(log(4000000/3721) - 3)^2))/633491083314007697689777965851292619752466645254144 + (579185055907740572779479520738342131383547173154875\*cos(1929/71)\*exp(-(log(4000000/5041) - 3)^2))/2823683474817046873613410278170972605780866040332288 - (5635931217332137691194186629057643985750209099588625\*cos(1919/81)\*exp(-(log(4000000/6561) - 3)^2))/54040707911713498001447857808928487673866886785794048 + (310580027299276926256030747881619891077468598506625\*cos(1909/91)\*exp(-(log(4000000/8281) - 3)^2))/5360744731062779871102080070430771353870691630841856 - (4286021483310468394481621930878007059973473815531625\*cos(1899/101)\*exp(-(log(4000000/10201) - 3)^2))/124559517969589293840499057714596183617286012451946496 + (9168544780414279484431572676612595477021734335845875\*cos(1889/111)\*exp(-(log(4000000/12321) - 3)^2))/425615650203904797157654333961561135391367870550114304 + (25361218152488239354679056054384994270332019765351125\*cos(1879/121)\*exp(-(log(4000000/14641) - 3)^2))/1801703072810493988344886974523588330721187624363491328 + (12711773000279363508557917622053199724919048599125\*cos(1869/131)\*exp(-(log(4000000/17161) - 3)^2))/1333643919744014142812736690424592330191924201783296 - (45009652295434112133098681224194493344557661510857375\*cos(1859/141)\*exp(-(log(4000000/19881) - 3)^2))/6766279734945957827884489331497044785138433838251245568 - (29069745288442820194167558787644753988116463850727125\*cos(1849/151)\*exp(-(log(4000000/22801) - 3)^2))/6101379965312580475614452926856298248750722874861420544 - (3515398207986404941589133048055091029824155492291125\*cos(1839/161)\*exp(-(log(4000000/25921) - 3)^2))/1007171021375927323263956306137289266377744084262453248 + (23083117014362597607855843748785205364446810531927625\*cos(1829/171)\*exp(-(log(4000000/29241) - 3)^2))/8850229147562930293219775484114689003037050633277407232 + (113943720506314914509178786430326075010667475102119875\*cos(1819/181)\*exp(-(log(4000000/32761) - 3)^2))/57444923447922979659622769361624822028815724648750645248 + (23156485417623970535300244388805573823558900228036125\*cos(1809/191)\*exp(-(log(4000000/36481) - 3)^2))/15112032365029268086694191116226095312209860465973526528 + (23943418363992591504328664502461152326641646265410875\*cos(1799/201)\*exp(-(log(4000000/40401) - 3)^2))/19943587337261873476383146334596045465117229263181840384 + (25028499029351290794526571698402552082911547759746625\*cos(1789/211)\*exp(-(log(4000000/44521) - 3)^2))/26271495729158023083996815934453115515698223578376830976 + (79034313779315464017259260766380714367750499286794125\*cos(1779/221)\*exp(-(log(4000000/48841) - 3)^2))/103340351580644846903488905278767055249859940180794802176 - (19894465941642413006960813556560550361956681865141375\*cos(1769/231)\*exp(-(log(4000000/53361) - 3)^2))/32062688356681551508577730444363845836400349601314373632 - (324781703672274971380442410050460919432785000564638625\*cos(1759/241)\*exp(-(log(4000000/58081) - 3)^2))/638945132979987966716398431613082859343390438459617312768 - (31347998656758783683821010748207307641340042043769625\*cos(1749/251)\*exp(-(log(4000000/63001) - 3)^2))/74612618313325220055855409622047527262170668509402497024 - (433000718764328879393675156300986480134288216625644875\*cos(1739/261)\*exp(-(log(4000000/68121) - 3)^2))/1236640489738408708573037868886711847230914853752073617408 - (35396459506524359361303289708318619858554241540910125\*cos(1729/271)\*exp(-(log(4000000/73441) - 3)^2))/120379222625201477889995314438280927649164432711092273152 - (188039376763356477346488266987548771676542458632800375\*cos(1719/281)\*exp(-(log(4000000/78961) - 3)^2))/756129171953141259093969434935523499384466053971696418816 - (39937161901455270103445083029196781033971342419343625\*cos(1709/291)\*exp(-(log(4000000/84681) - 3)^2))/188628893731721265616590170944006125890436620510872731648 - (102923950577769185236952678674809291487365802491129625\*cos(1699/301)\*exp(-(log(4000000/90601) - 3)^2))/567477047583283877422197953883656105761475827057488297984 - (134803581530767294867445315195676676136748723098417375\*cos(1689/311)\*exp(-(log(4000000/96721) - 3)^2))/862623896004207196316347229145239487829111795724392071168 - (904335839209590853432688326291547969915782253499163625\*cos(1679/321)\*exp(-(log(4000000/103041) - 3)^2))/6680050692931508826757473823952422926351869026358135881728 - (251821312437668214541832151614113480417819802267690125\*cos(1669/331)\*exp(-(log(4000000/109561) - 3)^2))/2136262524569899104591009184227421520368730657773439680512 - (53235155874525190589785541561864945284039115882722375\*cos(1659/341)\*exp(-(log(4000000/116281) - 3)^2))/516158438902175677507223342149416037739145327238403063808 + (618278325504796798854566629080350512868804453602633375\*cos(1649/351)\*exp(-(log(4000000/123201) - 3)^2))/6820533033152319148774709906217394984716594982597630623744 + (1363394469825985023430993333395599645313747208206926125\*cos(1639/361)\*exp(-(log(4000000/130321) - 3)^2))/17038861425888056565495415927413030854356786692974715076608 + (8920817244811092974165791725715027055102190971720375\*cos(1629/371)\*exp(-(log(4000000/137641) - 3)^2))/125788897949751008910986133524097592282058660846550122496 + (1642701290862032408267930310397143250370351993363432375\*cos(1619/381)\*exp(-(log(4000000/145161) - 3)^2))/26033946661812317403201219023273032016111570383112553627648 + (897816143581237792312473923226413427208448942328514625\*cos(1609/391)\*exp(-(log(4000000/152881) - 3)^2))/15933897800228615934012627686699080165706909490173951606784 + (652568288660182756932677423348524559900668478020562875\*cos(1599/401)\*exp(-(log(4000000/160801) - 3)^2))/12924132549516406690843923435858268440476640285406261149696 + (76040049859673369577582320294994593128405536431581625\*cos(1589/411)\*exp(-(log(4000000/168921) - 3)^2))/1675015528028109621010306330469925090798779647398758055936 + (2310071060941944559491389924582745594253690668556694875\*cos(1579/421)\*exp(-(log(4000000/177241) - 3)^2))/56419664390572377573397842526024857649689720536494849916928 + (416788144610000292052991757974124236003271870564298625\*cos(1569/431)\*exp(-(log(4000000/185761) - 3)^2))/11252263271382467812460133187397930951251243771655469662208 + (385893520095760199008510492524869906866122141757635875\*cos(1559/441)\*exp(-(log(4000000/194481) - 3)^2))/11483144424726404578945231047407462793334399350216037761024 + (90993500095556580568207787101004890300431972425517125\*cos(1549/451)\*exp(-(log(4000000/203401) - 3)^2))/2976301842898765272328822467703480746286725500595112771584 + (1044155782636028324078054514956984010480875640652319125\*cos(1539/461)\*exp(-(log(4000000/212521) - 3)^2))/37442182763615525160668286203298619407394517158336382631936 + (1681694401327403837998156670444510068940182239515777125\*cos(1529/471)\*exp(-(log(4000000/221841) - 3)^2))/65944196575816749495524523201716799528620300092108663947264 + (514949312786693462528486286923503215498810237053173375\*cos(1519/481)\*exp(-(log(4000000/231361) - 3)^2))/22028123493703936079010672916150603791558590483988442251264 + (321358748770072594241864781984967192942387741757150875\*cos(1509/491)\*exp(-(log(4000000/241081) - 3)^2))/14961645756039034327518484300083754338399994092444727640064 + (4118415283820988299605363234424257302152476955604219875\*cos(1499/501)\*exp(-(log(4000000/251001) - 3)^2))/208222992133378488480401936449946958981645098981683560972288 + (313642911819144077112332315020452114630237347031022625\*cos(1489/511)\*exp(-(log(4000000/261121) - 3)^2))/17183615255162190107448275172453619294315898345768639004672 + (1558020891981860069968419588934365842218727124969325375\*cos(1479/521)\*exp(-(log(4000000/271441) - 3)^2))/92308163546656839780916073811336459243369873518035652837376 + (620947227495056001974697092871777538117904646366509125\*cos(1469/531)\*exp(-(log(4000000/281961) - 3)^2))/39705499839224332863786054711542660985911075083929891373056 + (5271497572689061437330357260702183051837176958738482375\*cos(1459/541)\*exp(-(log(4000000/292681) - 3)^2))/363105503379959067258482328689521380610397406660781689274368 + (132993974131951801554288619384281185009471163515097125\*cos(1449/551)\*exp(-(log(4000000/303601) - 3)^2))/9850040416961374867074673733847956415735858492504658673664 + (5910223486362924988451020817291071854250638289750738625\*cos(1439/561)\*exp(-(log(4000000/314721) - 3)^2))/469840777891689487076102039677700432316068093180438284075008 + (1561199172582389330786703512009217999928856362698833875\*cos(1429/571)\*exp(-(log(4000000/326041) - 3)^2))/132986364200526274003419846025946552554002038994541511442432 + (313776514565656335680282759149881105431278569323797375\*cos(1419/581)\*exp(-(log(4000000/337561) - 3)^2))/28592943095540634781428415633373013326479352057450660364288 + (3471782080010647242254645063181899907268213779935420875\*cos(1409/591)\*exp(-(log(4000000/349281) - 3)^2))/337903961762932802834021406364991348414412209036765360553984 + (7307348335437306852626261909985346202023724413940501125\*cos(1399/601)\*exp(-(log(4000000/361201) - 3)^2))/758472442739136978295362297387774931176006058645280142655488 + (160008488078314921064113501131296332955914459073241625\*cos(1389/611)\*exp(-(log(4000000/373321) - 3)^2))/17685684342713239351215323640834210537621316120154625540096 + (1151779622206547394135741369050341845074174607775429625\*cos(1379/621)\*exp(-(log(4000000/385641) - 3)^2))/135371947966510664020757430999902750626025461460182870523904 + (4226590613320893258826728131292825220064802691792302125\*cos(1369/631)\*exp(-(log(4000000/398161) - 3)^2))/527512146421892977160377470276658117246643950332083724877824 + (2950742922460942941943119409590977437931502288239087875\*cos(1359/641)\*exp(-(log(4000000/410881) - 3)^2))/390552372614644298049354690894492294958190004691196870393856 + (330686279124075524415628445700794198203248487111887875\*cos(1349/651)\*exp(-(log(4000000/423801) - 3)^2))/46356602631577258126046161174276134337621533958352872144896 + (9673723884309324984384225099755418418972585493463269875\*cos(1339/661)\*exp(-(log(4000000/436921) - 3)^2))/1434488286528670846474586952975161646126826191978056235614208 + (1682549966805764891460834964278200858061246438402561125\*cos(1329/671)\*exp(-(log(4000000/450241) - 3)^2))/263607232539622776186834827079129346784926345348469634367488 + (10523455421780976893944233010754869237731908714521026125\*cos(1319/681)\*exp(-(log(4000000/463761) - 3)^2))/1739918760335617725639810960711271551917001215414527221301248 + (195672632717810376633568243162314344579402832908698625\*cos(1309/691)\*exp(-(log(4000000/477481) - 3)^2))/34103081113677591657152697967466244328863856870765916848128 + (3799125743403716053307654436081581055828640096981844125\*cos(1299/701)\*exp(-(log(4000000/491401) - 3)^2))/697216486935238161852846483514119912621068837426927706832896 + (5920995450913521732476370010743557048026973741601564625\*cos(1289/711)\*exp(-(log(4000000/505521) - 3)^2))/1142988822994220481426223611497653963028108785698624088571904 + (1755839898492326489620220579026540146811981348427398375\*cos(1279/721)\*exp(-(log(4000000/519841) - 3)^2))/356166485390866759945568580679447069610130090423747298197504 + (1061948179803880727672746889390254834205940828601532125\*cos(1269/731)\*exp(-(log(4000000/534361) - 3)^2))/226133155467433009155309809565525828022420452816660310523904 + (13198788459611415455738224362051517349471317492114794875\*cos(1259/741)\*exp(-(log(4000000/549081) - 3)^2))/2947633666847619541500212274793822518752891487356886102048768 + (6828188353716500674554000168371834920033245831993945875\*cos(1249/751)\*exp(-(log(4000000/564001) - 3)^2))/1597800729589726217784111119428183538735205631197609033990144 + (672160735682712961557197819516842729196509093569978625\*cos(1239/761)\*exp(-(log(4000000/579121) - 3)^2))/164656975558049825085477289724532694566084853344955634024448 + (227734122760794674225605252113388157497797303121353875\*cos(1229/771)\*exp(-(log(4000000/594441) - 3)^2))/58351204970984827290087041026861202612384369910135235018752 - (15034368423459689645267931076977528890208953017411057375\*cos(1219/781)\*exp(-(log(4000000/609961) - 3)^2))/4025861397222211362124637445387980170104075184928740708712448 - (368872947156272350860823799487327331841605325762134625\*cos(1209/791)\*exp(-(log(4000000/625681) - 3)^2))/103145800633021441029146589260117445054706617881955982639104 - (15948973627371242553262299120758396473986985318494313625\*cos(1199/801)\*exp(-(log(4000000/641601) - 3)^2))/4653391006306783044058326003809252476100437907007458286501888 - (4100592945584241828162012609345973993959016970842977625\*cos(1189/811)\*exp(-(log(4000000/657721) - 3)^2))/1247435087366688286620124413681321627384220099529337577930752 - (5617301118179987349532807190426735238416530770158106625\*cos(1179/821)\*exp(-(log(4000000/674041) - 3)^2))/1780398299136647575351119847428698153611978277576835990552576 - (1235470431260270552570824899230291165420658262979172625\*cos(1169/831)\*exp(-(log(4000000/690561) - 3)^2))/407694375549447606222988731626618717335181425356354650898432 - (17735411527524577191989301287522762568792159872806076125\*cos(1159/841)\*exp(-(log(4000000/707281) - 3)^2))/6089226488042944992125065066542262584159647586953986433875968 - (756972794356233596296947520970174071811982871836423875\*cos(1149/851)\*exp(-(log(4000000/724201) - 3)^2))/270231472906129591483640215347278032821611754630434166669312 - (2655905300172259295094443766200479406645417198020654625\*cos(1139/861)\*exp(-(log(4000000/741321) - 3)^2))/985212536264948350073164893154837636172302423294470147538944 - (9503152547743786779528814766548914442871637945362089625\*cos(1129/871)\*exp(-(log(4000000/758641) - 3)^2))/3660868211734624401989366683285802162766241935942545691377664 - (6470385143384370506637425280705951671318165398781612875\*cos(1119/881)\*exp(-(log(4000000/776161) - 3)^2))/2586981598359895297318336223867463090481486858360595693961216 - (4951193864412471557907481036088272217854441489778358875\*cos(1109/891)\*exp(-(log(4000000/793881) - 3)^2))/2053421295364282500669946384765117983830297907818503593787392 - (2883719667170131610711177640022999529406559068351692125\*cos(1099/901)\*exp(-(log(4000000/811801) - 3)^2))/1239922459722449247119515589619269857474912869491608947523584 - (3425633665689495646901747355843304056960311777982823625\*cos(1089/911)\*exp(-(log(4000000/829921) - 3)^2))/1526281102354744813959516645420686822252608491158508423610368 - (20906918207503449419982333598165957621112598500750601125\*cos(1079/921)\*exp(-(log(4000000/848241) - 3)^2))/9647724228843478326788700562758123772828467127076189978492928 - (189680611420236114597917127621587568438669671258300875\*cos(1069/931)\*exp(-(log(4000000/866761) - 3)^2))/90614691890407301588280990473445756053796518219421428219904 - (7188190009063111993361253620973880411884329429555369125\*cos(1059/941)\*exp(-(log(4000000/885481) - 3)^2))/3553416728485909693717175006821180719371555749815927026221056 - (10933388948065047011899418145192396922100404075633352125\*cos(1049/951)\*exp(-(log(4000000/904401) - 3)^2))/5590531303906482705495835661587160579679020640741494404153344 - (22149687847220190693587613862274184290966307688863363625\*cos(1039/961)\*exp(-(log(4000000/923521) - 3)^2))/11710332127958674136652996227177280974823777207198352102391808 - (266811182880103551792987278663794383752291118870987625\*cos(1029/971)\*exp(-(log(4000000/942841) - 3)^2))/145798025604117581265920186612333064621384594674853234081792 - (22652978753440176005072129060768859425182784833197369875\*cos(1019/981)\*exp(-(log(4000000/962361) - 3)^2))/12790071500816240636256122722204496335493110629977600292814848 - (11435531191491161830916438740670322286045009753036733375\*cos(1009/991)\*exp(-(log(4000000/982081) - 3)^2))/6669138118219524043191213964054044998241282414761177864208384 - (1098345713178064385277541697976745512312909381082053625\*cos(999/1001)\*exp(-(log(4000000/1002001) - 3)^2))/661448185758944285008801274971097413670405679170764016713728 - (2904307254847465064079608956138322119146290877331652875\*cos(989/1011)\*exp(-(log(4000000/1022121) - 3)^2))/1805647027173263352777120426286559669236917987847135272370176 - (23377563355012508041409581507498202875729158891695632375\*cos(979/1021)\*exp(-(log(4000000/1042441) - 3)^2))/15001204229951050706378573363015844864416593779173087539888128 - (3915584430460895550073842114226628891674048962126204875\*cos(969/1031)\*exp(-(log(4000000/1062961) - 3)^2))/2592845315475114118097077498883607835950250681888564637073408 - (3368749417164141097880663444606172658461355038795698375\*cos(959/1041)\*exp(-(log(4000000/1083681) - 3)^2))/2301614300767602735124415463457658704862510027514847244058624 - (5909942712234542139847720332557626252151098456860121375\*cos(949/1051)\*exp(-(log(4000000/1104601) - 3)^2))/4165589797198977304054718957731053218310423168377479571177472 - (7889368648086285499531932411206016824086760018333631625\*cos(939/1061)\*exp(-(log(4000000/1125721) - 3)^2))/5736224599448635714793171694483184156359255580856296811790336 - (1690379624565910200269985186593689926754367308211285125\*cos(929/1071)\*exp(-(log(4000000/1147041) - 3)^2))/1267759161469881653700806342499721434477228227716090850967552 - (23630503669797927166546851435039437658554123759843651125\*cos(919/1081)\*exp(-(log(4000000/1168561) - 3)^2))/18280572323719524288251586463422438955035036464126565493506048 - (245446104095256644118405512503499198348006605257966125\*cos(909/1091)\*exp(-(log(4000000/1190281) - 3)^2))/195862784433841086741338740824401336108081969254535641694208 - (23461485835379945179908804305219988374403651373153157375\*cos(899/1101)\*exp(-(log(4000000/1212201) - 3)^2))/19313692621284620268598641970166335047265608961804742833471488 - (1666124442518907959997460557734754773818649204822553875\*cos(889/1111)\*exp(-(log(4000000/1234321) - 3)^2))/1415103762015411948905656184139379991262630525287770695401472 - (7718304331009970647678943923421329679201310871728137875\*cos(879/1121)\*exp(-(log(4000000/1256641) - 3)^2))/6764794682162135681560163342550897777425951737555314095947776 - (5737094780369525861329216528915108162206268634766502625\*cos(869/1131)\*exp(-(log(4000000/1279161) - 3)^2))/5190190771382827504421942632081866807762805976183584862502912 - (3243655499087052965674233464091480102787198086198917125\*cos(859/1141)\*exp(-(log(4000000/1301881) - 3)^2))/3029839092624017236632329197089258078371487689156295313588224 - (3737676679304953457845515674906769707431933530745086125\*cos(849/1151)\*exp(-(log(4000000/1324801) - 3)^2))/3606169196719344448824786307500111299909887393315482236878848 - (22109387895303780327641728949161797266834982916432176125\*cos(839/1161)\*exp(-(log(4000000/1347921) - 3)^2))/22043510966736365153407451638668107738247112220170756143710208 - (2719405626189119960638884888169913012115574657748034125\*cos(829/1171)\*exp(-(log(4000000/1371241) - 3)^2))/2803339570199988054138493393641925346231077234156912420847616 - (1017304163122625264244974326343619141290390526578984875\*cos(819/1181)\*exp(-(log(4000000/1394761) - 3)^2))/1085001349814337344741879674025897847834949080160034239807488 - (10466828978186254810419149580955046479931700143531139625\*cos(809/1191)\*exp(-(log(4000000/1418481) - 3)^2))/11558446087036267836446330839059175498370242896904514734915584 - (20465990000020996113035158357803778563585740321626938625\*cos(799/1201)\*exp(-(log(4000000/1442401) - 3)^2))/23420812058633679052561216439295007101382454408870588672114688 - (237623943198772110472518648333046820551462070194756375\*cos(789/1211)\*exp(-(log(4000000/1466521) - 3)^2))/282087605385081504179323019332961576011724493248492010995712 - (19417047172315553970528893684111271030003292053091944875\*cos(779/1221)\*exp(-(log(4000000/1490841) - 3)^2))/23939178871178341635019495907875757494028509753421627054358528 - (9418062341016408467103835791272514905370501655865520875\*cos(769/1231)\*exp(-(log(4000000/1515361) - 3)^2))/12075501205394400612533393024086866812297597660260058397671424 - (6072658419336663690148877158683912643185268772002900375\*cos(759/1241)\*exp(-(log(4000000/1540081) - 3)^2))/8109884034042680708178873823272716303623246079299664536928256 - (156812841297806485393260757780937175650616260752069625\*cos(749/1251)\*exp(-(log(4000000/1565001) - 3)^2))/218518312964327564015081146243218758549560983152049021517824 - (16871863741610478086850070023127734555675604955032207375\*cos(739/1261)\*exp(-(log(4000000/1590121) - 3)^2))/24583230713260500312254270171470496042294113310505210539409408 - (2690852603107025382086725543367725139015345993019467375\*cos(729/1271)\*exp(-(log(4000000/1615441) - 3)^2))/4109389738070593109983417704879927219021223537818482075762688 - (2197653420171823274097158105822757504266059008573923375\*cos(719/1281)\*exp(-(log(4000000/1640961) - 3)^2))/3527520655751821640593493747527637600649412233004135496024064 - (3647034365987830304222122870460919987299443583710265125\*cos(709/1291)\*exp(-(log(4000000/1666681) - 3)^2))/6172887340634438227580125152568851599596749789707442000494592 - (4586608589374908005998500475856525087951300276673156625\*cos(699/1301)\*exp(-(log(4000000/1692601) - 3)^2))/8217529634817354219580091407416041653023395204366101219639296 - (6449890579265155887035938264292120867718245268529783375\*cos(689/1311)\*exp(-(log(4000000/1718721) - 3)^2))/12287720521444845370067052567625161261925265863935433327509504 - (1715610040139028237627696555955420260913378262470460875\*cos(679/1321)\*exp(-(log(4000000/1745041) - 3)^2))/3494275762495060991241080974450465931110873534593763695919104 - (462070226653399690296442566327425415617905569692805125\*cos(669/1331)\*exp(-(log(4000000/1771561) - 3)^2))/1012751353531674841231352778113802942960581176813301375434752 - (10142545593740334690451585295594414436980561691293732375\*cos(659/1341)\*exp(-(log(4000000/1798281) - 3)^2))/24113878009861379803383754611589945060292444882391884227411968 - (654964072213446019475162785635411395910707544185666375\*cos(649/1351)\*exp(-(log(4000000/1825201) - 3)^2))/1705982513964032599406761530451161905923184576157455474491392 - (2724104519092976824618377836686319729315234367558662875\*cos(639/1361)\*exp(-(log(4000000/1852321) - 3)^2))/7872037400549549995265524476466256996356902602158708711489536 - (1788224149611861602106927345383117155898790321307646375\*cos(629/1371)\*exp(-(log(4000000/1879641) - 3)^2))/5827889582896386728512603276516863854870101593192030202232832 - (6113274491766886678627590390998118819785189347294994875\*cos(619/1381)\*exp(-(log(4000000/1907161) - 3)^2))/22970864403724074769592606591461694538381542963472192554139648 - (120371467693328974159056308675571192873623887618478375\*cos(609/1391)\*exp(-(log(4000000/1934881) - 3)^2))/537975290302476030244746746057047653941103063619004692168704 - (3982157105549484012791811697250123590657368130205751125\*cos(599/1401)\*exp(-(log(4000000/1962801) - 3)^2))/22184942907451050413375629587080541057129309220555300785881088 - (11309932399590805649982722426120837891225636607386125\*cos(589/1411)\*exp(-(log(4000000/1990921) - 3)^2))/84929901089381578007641336166459029920972173488725707194368 - (85603837755035784441479564334794982719274945222059875\*cos(579/1421)\*exp(-(log(4000000/2019241) - 3)^2))/1012747573106305607577492790603180864722200173425849236717568 - (345905212031123268618409459068463487536119976814927125\*cos(569/1431)\*exp(-(log(4000000/2047761) - 3)^2))/10381713174392430130198191612023498012499558573885926223642624 + (419514240416811066880105595153263132837501738877486375\*cos(559/1441)\*exp(-(log(4000000/2076481) - 3)^2))/20230930243994306671229891642893491734698261284101484516999168 + (127785829939981655599155929713439434589792340879324125\*cos(549/1451)\*exp(-(log(4000000/2105401) - 3)^2))/1639336746975490693046512694371358172861600914403375892660224 + (378138302457897725197663083202008784737067494108782875\*cos(539/1461)\*exp(-(log(4000000/2134521) - 3)^2))/2726959671034706350723879420126153244558124673538455234412544 + (1878530132568140023480590399105513648424456562399691625\*cos(529/1471)\*exp(-(log(4000000/2163841) - 3)^2))/9241519940829962584350471594133638734214519714396592630923264 + (1620181378018580109451746847653738305235227416044574625\*cos(519/1481)\*exp(-(log(4000000/2193361) - 3)^2))/5952399165114900252386227897333539288458493352926213744623616 + (106324470564892744943371463423368126403170537422457625\*cos(509/1491)\*exp(-(log(4000000/2223081) - 3)^2))/307383578060827369054546172908729673088965949870215138377728 + (7034609891685860586532669865082499969398599295939217625\*cos(499/1501)\*exp(-(log(4000000/2253001) - 3)^2))/16554266566863206491589801021044866579342993996352884245004288 + (1349743714488786622897138306011840590058290644745270125\*cos(489/1511)\*exp(-(log(4000000/2283121) - 3)^2))/2647001638752846747854310130109550617446269139640976899309568 + (9142264636120368727261566557814214650281867777922961375\*cos(479/1521)\*exp(-(log(4000000/2313441) - 3)^2))/15199226237519999641608192995591017955664858564597557785264128 + (362946479896350960974135830262155429123530634406655875\*cos(469/1531)\*exp(-(log(4000000/2343961) - 3)^2))/518160000427378352085083231507150382892792213068678237782016 + (3718538426004970628077549604708067629774728397543318375\*cos(459/1541)\*exp(-(log(4000000/2374681) - 3)^2))/4604122893440542523848053655424213564248247003718437050515456 + (6059009209673664314463963922208398783153335845673429125\*cos(449/1551)\*exp(-(log(4000000/2405601) - 3)^2))/6556753784031632058656541736214310792865839663915171204562944 + (1863729328572425523871530281111943572833521899629314125\*cos(439/1561)\*exp(-(log(4000000/2436721) - 3)^2))/1773501967645906646709457290434839359523850782815869567238144 + (290338875027959530558286759718359102393727872710377125\*cos(429/1571)\*exp(-(log(4000000/2468041) - 3)^2))/244124785550942915650431183861361798644393552645200371777536 + (14784900703376094006228547466498804108869730644393692625\*cos(419/1581)\*exp(-(log(4000000/2499561) - 3)^2))/11026506304268650416669371276151572219447987562818935663362048 + (7794217584088615152393108568291073074503541130092547875\*cos(409/1591)\*exp(-(log(4000000/2531281) - 3)^2))/5171293023130964478052714018175459780888416719324711154089984 + (778254156466122531503573402078181812827828319835258875\*cos(399/1601)\*exp(-(log(4000000/2563201) - 3)^2))/460413614032556989967038384652373338688830933381783306108928 + (4261533679671802051333027898728298310486524825238209875\*cos(389/1611)\*exp(-(log(4000000/2595321) - 3)^2))/2251795075139080621815180385174202130868394530140377057329152 + (17693433681273280351873276764383594024319801663590430125\*cos(379/1621)\*exp(-(log(4000000/2627641) - 3)^2))/8360344419687561338455055971637914624616878439947914946019328 + (435284259319553514879573963776696620213713539203484125\*cos(369/1631)\*exp(-(log(4000000/2660161) - 3)^2))/184055659331403449035985597928015885199879953997564628434944 + (18808474731652839758408570550528453442550611638088673875\*cos(359/1641)\*exp(-(log(4000000/2692881) - 3)^2))/7119187943172827491884279446839250566958824860402852003053568 + (2408750957251903974620402140498804591099300150238822125\*cos(349/1651)\*exp(-(log(4000000/2725801) - 3)^2))/816097021944213560456961913636968150329663676868376590811136 + (6554556631756102927865039884399156147287075910460055875\*cos(339/1661)\*exp(-(log(4000000/2758921) - 3)^2))/1986940738461892058640452618730930747297227427869577745268736 + (1427627461250105950002853422348073524048314491342183625\*cos(329/1671)\*exp(-(log(4000000/2792241) - 3)^2))/386919385176836382218706086110563670725809384857534413668352 + (20236891533813165845850390845041980308105476509609911375\*cos(319/1681)\*exp(-(log(4000000/2825761) - 3)^2))/4898282425910056206929771300381379724461621176561368194613248 + (1700981356599542628132251218300995624896251994310942875\*cos(309/1691)\*exp(-(log(4000000/2859481) - 3)^2))/367184724344521016557152631781776342665686460710999518347264 + (2929928293037615445237953163601993766378962592817557875\*cos(299/1701)\*exp(-(log(4000000/2893401) - 3)^2))/563089864248661489550110251961582948143493303563097561104384 + (10264210566996831253719992419374275228475870947038904125\*cos(289/1711)\*exp(-(log(4000000/2927521) - 3)^2))/1752630196040936759324414272348515061768255545792466627067904 + (6822415663360772966985462724068526048119738058488049625\*cos(279/1721)\*exp(-(log(4000000/2961841) - 3)^2))/1032544031107853748968626646579825717161341283993144761778176 + (635157752627588540290842618401993100730568941061720375\*cos(269/1731)\*exp(-(log(4000000/2996361) - 3)^2))/84970078300232416854321686944622487774091026026760675262464 + (2871614759846324325061995320460645588549985827625520375\*cos(259/1741)\*exp(-(log(4000000/3031081) - 3)^2))/338509379195818797334674844600022311367420864602680877645824 + (3299322521485235094736966015881127825644591981728007625\*cos(249/1751)\*exp(-(log(4000000/3066001) - 3)^2))/341508710881850304524924515726124239731488857389258976002048 + (19409348272778494579559322605321960899078915828811386375\*cos(239/1761)\*exp(-(log(4000000/3101121) - 3)^2))/1757133239522125617928319342118061318578323167568442748305408 + (676516798958503989092151180551857706959899007464349625\*cos(229/1771)\*exp(-(log(4000000/3136441) - 3)^2))/53329488341267328655741828293447010853027245532877554712576 + (6132264743576936282434488731455223214725702420635793375\*cos(219/1781)\*exp(-(log(4000000/3171961) - 3)^2))/418847165293796131820494042999314552474339862889027459874816 + (8887211003369584347106110443360951614279857539210641625\*cos(209/1791)\*exp(-(log(4000000/3207681) - 3)^2))/523049382144864334895473898189306451705955362484104078557184 + (17078111238082329723140502174478566374720351363611623875\*cos(199/1801)\*exp(-(log(4000000/3243601) - 3)^2))/860735634814838001711391757810204446398162644915762535333888 + (97091207214601314029720178862165899937792586106973375\*cos(189/1811)\*exp(-(log(4000000/3279721) - 3)^2))/4161470092929140549259276849018381148846426953150948704256 + (15478270898298993270119340714072332623983628431669117625\*cos(179/1821)\*exp(-(log(4000000/3316041) - 3)^2))/559803556082020456941509234241645926239480365862975835209728 + (7291987450492044727705030211604657903089031416898760375\*cos(169/1831)\*exp(-(log(4000000/3352561) - 3)^2))/220586846462142585258873967503525406942967559214820726145024 + (649253022666234038056667690782088260986135434601183875\*cos(159/1841)\*exp(-(log(4000000/3389281) - 3)^2))/16264151432751665166353287061268718359214238904099230711808 + (3159020165186755943342428355013022845163673318711066125\*cos(149/1851)\*exp(-(log(4000000/3426201) - 3)^2))/64790317085052930314047820551318500910741836021022297423872 + (11597044164669508874885632944197870221632444407823855125\*cos(139/1861)\*exp(-(log(4000000/3463321) - 3)^2))/192208391946880566237840134594578627529106516795144020164608 + (1754334311438123227672001912332804336568026541476126375\*cos(129/1871)\*exp(-(log(4000000/3500641) - 3)^2))/23144210706189207656273489863832419961330791585602116517888 + (1347552083175794204381221158534321624816593152773014125\*cos(119/1881)\*exp(-(log(4000000/3538161) - 3)^2))/13903268591152247561141433564445145871352751052181852913664 + (520542569256709924705947461204317188036304994898750125\*cos(109/1891)\*exp(-(log(4000000/3575881) - 3)^2))/4113554471036914651895246319298380267656710042279999438848 + (2408581887597301635142388115893650330641544292110530875\*cos(99/1901)\*exp(-(log(4000000/3613801) - 3)^2))/14219186678361155834324966410230008432107288912852414365696 + (438403407437393373671070857838490603766681363197071125\*cos(89/1911)\*exp(-(log(4000000/3651921) - 3)^2))/1875638622187763503473042777995484414135644702587194703872 + (5079348215503803938443620644722163050721579300330336375\*cos(79/1921)\*exp(-(log(4000000/3690241) - 3)^2))/15165709265978847711650120312373913813222969861930827644928 + (338937874806587644052560888926216559121090477011561625\*cos(69/1931)\*exp(-(log(4000000/3728761) - 3)^2))/673109403100709720157319396298169645134394269502856495104 + (3119297519077093881331167854773557977434579855952330125\*cos(59/1941)\*exp(-(log(4000000/3767481) - 3)^2))/3867861037567156251417893435373363360208157259406579335168 + (161072276862143722854354793168828400781627437390302375\*cos(49/1951)\*exp... Output truncated. Text exceeds maximum line length for Command Window display.  ans =  -1  Elapsed time is 4.595622 seconds. |

Maximization:

|  |
| --- |
| >> maximization  cserr =  (4316455357423840281305213795165226835267488163306005372740032444497920000000000000000000\*exp(-(log(4504346951680107/1073741824) - 3)^2)\*cos(4504346951680107/1073741824))/16687899854800994415876028005485355304099332932276407046916594998512944815255763 + (85040612293251877140410559871223386214899674799442493287229470801920000000000000000000\*exp(-(log(4509715660800107/1073741824) - 3)^2)\*cos(4509715660800107/1073741824))/329168398815743715915832708380873675342540691228023078295853832275433658150113 - (1452586952073339262579727767585146316792000036028375496394815192432640000000000000000000\*exp(-(log(4515084369920107/1073741824) - 3)^2)\*cos(4515084369920107/1073741824))/5629250887804603101670412185300059711220338121608878154092672910957048105351921 - (4378524420939259623590884396933069871196620020705941694387260143697920000000000000000000\*exp(-(log(4520453079040107/1073741824) - 3)^2)\*cos(4520453079040107/1073741824))/16988394527681789345505873387085361292225899746458180326398803397865028066455763 + (488818010782838212167022531301765232656511479912426388921905190010880000000000000000000\*exp(-(log(4525821788160107/1073741824) - 3)^2)\*cos(4525821788160107/1073741824))/1898835070878454372521588177560450315200179123367613628238632175545418646317307 + (491141562297768088833280443867376623533876506588800559328233919610880000000000000000000\*exp(-(log(4531190497280107/1073741824) - 3)^2)\*cos(4531190497280107/1073741824))/1910124189293534464091852184592175822806395050049218720095607668653595951917307 - (4441260488192477933839458165858973776984492685783001822398135842897920000000000000000000\*exp(-(log(4536559206400107/1073741824) - 3)^2)\*cos(4536559206400107/1073741824))/17293202438504750759863314159583230069842049088292715578367935050665815317655763 - (1487440518714140146339613338826644433450837010865583930889746136432640000000000000000000\*exp(-(log(4541927915520107/1073741824) - 3)^2)\*cos(4541927915520107/1073741824))/5798590520058741698812520800044266350776406572913381408283960872379707689351921 + (1494485813765996975923242953409153083873372440930848423935804325232640000000000000000000\*exp(-(log(4547296624640107/1073741824) - 3)^2)\*cos(4547296624640107/1073741824))/5832942263469293064939551676530395813055297818734702991567036085394095606151921 + (4504668320636509499060408602611640059304563668541038986852659542097920000000000000000000\*exp(-(log(4552665333760107/1073741824) - 3)^2)\*cos(4552665333760107/1073741824))/17602369855026508037874620648454959896618487880725230428367410106675306568855763 - (1508651457114788579365129247031487170243060190377152021614992702832640000000000000000000\*exp(-(log(4558034042880107/1073741824) - 3)^2)\*cos(4558034042880107/1073741824))/5902134161312957514678386141900973128639968028017062334073862635832727439751921 - (1515771923605672905438466455029935584007792306990528677608122891632640000000000000000000\*exp(-(log(4563402752000107/1073741824) - 3)^2)\*cos(4563402752000107/1073741824))/5936975470378838842751506904464892959472139571907335566136480999176971356551921 - (4568752696658996991397401155963456288122639997587784817830831241297920000000000000000000\*exp(-(log(4568771461120107/1073741824) - 3)^2)\*cos(4568771461120107/1073741824))/17915943374700583662974395661269233070714576029155358874707778315653501820055763 + (510029480742655400806063931892565331418726163291663860767151756410880000000000000000000\*exp(-(log(4574140170240107/1073741824) - 3)^2)\*cos(4574140170240107/1073741824))/2002383901867403826565198870149281122203119991970205112708933155638438396717307 + (512428204323821232670703213729808562056523043871849394120552486010880000000000000000000\*exp(-(log(4579508879360107/1073741824) - 3)^2)\*cos(4579508879360107/1073741824))/2014162598192162569655212312501227028702742890097810610670456599076471702317307 - (4633518411582211468128293222790496096696878220134849345412650940497920000000000000000000\*exp(-(log(4584877588480107/1073741824) - 3)^2)\*cos(4584877588480107/1073741824))/18233969925847914737086049835140342709473093620163051363474719027360401071255763 - (1551753074376055410717441444624371679164282927163403556309133835632640000000000000000000\*exp(-(log(4590246297600107/1073741824) - 3)^2)\*cos(4590246297600107/1073741824))/6113658832549900660558154795224555734129945961787088698521012215547470940551921 + (1559025484067377124988834299313800393287499434677305481556408024432640000000000000000000\*exp(-(log(4595615006720107/1073741824) - 3)^2)\*cos(4595615006720107/1073741824))/6149494952578740744994753607075165262395393923520064125356957729471426857351921 + (276410016333120727745007891063089363622222611882218882334006978805760000000000000000000\*exp(-(log(4600983715840107/1073741824) - 3)^2)\*cos(4600983715840107/1073741824))/1091558633460433793800133940245948207653824007072616168443355364209176724850339 - (1573646959526314727859582636431843686405581026247981686998028402032640000000000000000000\*exp(-(log(4606352424960107/1073741824) - 3)^2)\*cos(4606352424960107/1073741824))/6221671332588792114114321605598404409572570568444480653707784931649194690951921 - (1580996144742297086091366199530465396054496242248491918552374590832640000000000000000000\*exp(-(log(4611721134080107/1073741824) - 3)^2)\*cos(4611721134080107/1073741824))/6258012771841526968403757658596802375657030423122132528823543245823006607751921 - (4765113124093047529554165224892971302608214127595766610707234338897920000000000000000000\*exp(-(log(4617089843200107/1073741824) - 3)^2)\*cos(4617089843200107/1073741824))/18883571497206293816365529446955858630434241574487912941554683358000311573655763 + (531923903096959601939794598787223388394132272445204172576046322810880000000000000000000\*exp(-(log(4622458552320107/1073741824) - 3)^2)\*cos(4622458552320107/1073741824))/2110401702450398908453369351082869335710605049731457586949148288380162147117307 + (534399402829994536473498364889351690975863028867697212236519052410880000000000000000000\*exp(-(log(4627827261440107/1073741824) - 3)^2)\*cos(4627827261440107/1073741824))/2122685730383459056967710177986470019335451758483666076627489332068051452717307 - (4831951796998353154475819694438984282923372499952231408579998038097920000000000000000000\*exp(-(log(4633195970560107/1073741824) - 3)^2)\*cos(4633195970560107/1073741824))/19215242038930982743648493433933246269492437805399665836986713676453322824855763 - (1618128940926758424949677332376637952461170836834475391859465534832640000000000000000000\*exp(-(log(4638564679680107/1073741824) - 3)^2)\*cos(4638564679680107/1073741824))/6442276170059143045432767034650618503724253560770563254145362465941346191751921 + (1625633294449072851455074720256432490127924006216381579387955723632640000000000000000000\*exp(-(log(4643933388800107/1073741824) - 3)^2)\*cos(4643933388800107/1073741824))/6479644261010597756342426154011475613244663334583116879162116830534870108551921 + (4899491159439753844244722746001376008950814140694239023376409737297920000000000000000000\*exp(-(log(4649302097920107/1073741824) - 3)^2)\*cos(4649302097920107/1073741824))/19551556657497251992134564374939286648313729611529950537099329896675038076055763 - (1640720277335840493981359635140762572972460127354042452752008101232640000000000000000000\*exp(-(log(4654670807040107/1073741824) - 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3)^2)\*cos(5062692700160107/1073741824))/3325889644931545805488680931183203170960593503617551839148317175783949206317307 - (6917790211574657302525533901739585823938080814484856290363561916497920000000000000000000\*exp(-(log(5068061409280107/1073741824) - 3)^2)\*cos(5068061409280107/1073741824))/30092055366420239004240910897585459949143004158115632724159960957014738607255763 + (2315716497400472314006785588159473273714852184665990036504930827632640000000000000000000\*exp(-(log(5073430118400107/1073741824) - 3)^2)\*cos(5073430118400107/1073741824))/10083926430920413392390567544178817005162621755617826974939055938261263452551921 + (2325534041661524031624096274832220745914948318651249938164365016432640000000000000000000\*exp(-(log(5078798827520107/1073741824) - 3)^2)\*cos(5078798827520107/1073741824))/10137393577321795964227771694756360467946540543165193280129476698080899369351921 - (7006148307599321997435848590542240024057958655260925732338469615697920000000000000000000\*exp(-(log(5084167536640107/1073741824) - 3)^2)\*cos(5084167536640107/1073741824))/30573261837143182385192726550692897159719874044831649418762704334271461858455763 - (2345262745976645124100593054438325829736329558648931530030305394032640000000000000000000\*exp(-(log(5089536245760107/1073741824) - 3)^2)\*cos(5089536245760107/1073741824))/10245008255320656320001321581152760807719673128600784213163982891250027202951921 + (2355174038023250142765682745155532100376368143719073171596811582832640000000000000000000\*exp(-(log(5094904954880107/1073741824) - 3)^2)\*cos(5094904954880107/1073741824))/10299157226883584984756996467518343714614380881861529094549040950519519119751921 + (7095350134321174860484848091600715486555553723156630033477025314897920000000000000000000\*exp(-(log(5100273664000107/1073741824) - 3)^2)\*cos(5100273664000107/1073741824))/31060604748005026697960574910910918796260908983676777703674188206576889109655763 + (791696944132853983351621734252539047892406971480891341465631986810880000000000000000000\*exp(-(log(5105642373120107/1073741824) - 3)^2)\*cos(5105642373120107/1073741824))/3469380682154618497201688100998919343872272863553796288138900853076119651117307 - (795032155712647784985770250443379764322981785796995328996824716410880000000000000000000\*exp(-(log(5111011082240107/1073741824) - 3)^2)\*cos(5111011082240107/1073741824))/3487659781194807720368432767710283412127364960100456306348760644862568956717307 - (7185401045905223658378724089212725933336556679311566423859229014097920000000000000000000\*exp(-(log(5116379791360107/1073741824) - 3)^2)\*cos(5116379791360107/1073741824))/31554142602613960797645194911450898978926153525411352881047368723691020360855763 + (2405202543269517423564353922116994685427461974494180862964702526832640000000000000000000\*exp(-(log(5121748500480107/1073741824) - 3)^2)\*cos(5121748500480107/1073741824))/10573347346694404109549984005276912543119322903714451100493881392116258703751921 + (2415303117490523676019753509922766022837321184181049327705352715632640000000000000000000\*exp(-(log(5127117209600107/1073741824) - 3)^2)\*cos(5127117209600107/1073741824))/10628879510953719928268084346376108495382225626828513925200880500205462620551921 - (7276306413451104542957860215779671149599007703469210533565080713297920000000000000000000\*exp(-(log(5132485918720107/1073741824) - 3)^2)\*cos(5132485918720107/1073741824))/32053934275243319633172295128469333190681157158656629251082331635373855612055763 - (2435599670837682304701875084217334612641104967451708189093725093232640000000000000000000\*exp(-(log(5137854627840107/1073741824) - 3)^2)\*cos(5137854627840107/1073741824))/10740643822041802020123756125369138305060371053264631878653229039833726454151921 + (2445795783210787242151848220201364676890253354804616937101447282032640000000000000000000\*exp(-(log(5143223336960107/1073741824) - 3)^2)\*cos(5143223336960107/1073741824))/10796877436336049311178079478007593359281321677679493856165560697292786370951921 + (433415977940769532423343061870978646107840970233936258392622377205760000000000000000000\*exp(-(log(5148592046080107/1073741824) - 3)^2)\*cos(5148592046080107/1073741824))/1915296412470712103604295831089456768117161265212981187472605428905023227250339 - (822094670998701160639436181153580590245439542721601648714654553210880000000000000000000\*exp(-(log(5153960755200107/1073741824) - 3)^2)\*cos(5153960755200107/1073741824))/3636683754203609850515678341647822767913107993771692099983166117433587401517307 - (825525421357802105976832021378372109933538702059445119512919282810880000000000000000000\*exp(-(log(5159329464320107/1073741824) - 3)^2)\*cos(5159329464320107/1073741824))/3655664317093774587566272699078111676059397596630733461667363258589892707117307 - (7460702085500049105204407125902395347822162267785916431267728111697920000000000000000000\*exp(-(log(5164698173440107/1073741824) - 3)^2)\*cos(5164698173440107/1073741824))/33072516432005510860464470816010713131518767535824298210221595641485638114455763 + (2497257373282703972042598136950549692895388197684312877475418226032640000000000000000000\*exp(-(log(5170066882560107/1073741824) - 3)^2)\*cos(5170066882560107/1073741824))/11081589582971721351966945772448363475819974319276046967570485379437365954951921 + (2507646365497929296310662206394430744005400181420143935377284414832640000000000000000000\*exp(-(log(5175435591680107/1073741824) - 3)^2)\*cos(5175435591680107/1073741824))/11139246011934968001618135904205227961502165654214520473017278185556137871751921 - (7554203216875527012223544914779404216640693760451321479424523810897920000000000000000000\*exp(-(log(5180804300800107/1073741824) - 3)^2)\*cos(5180804300800107/1073741824))/33591426528545437245030089780648597666812902734826895065033716235434585365655763 - (2528521560880282920281751684491320600064715423262366526448088792432640000000000000000000\*exp(-(log(5186173009920107/1073741824) - 3)^2)\*cos(5186173009920107/1073741824))/11255278822550340227450575925595021635228802120873557345173029371163537705351921 + (2539007898548780698625375794350946369705712829849274810977026981232640000000000000000000\*exp(-(log(5191541719040107/1073741824) - 3)^2)\*cos(5191541719040107/1073741824))/11313656699428092850641661682493339804911339628012969728098979576572165622151921 + (7648580457957665464631396843253807628656329226132120767224967510097920000000000000000000\*exp(-(log(5196910428160107/10737... Output truncated. Text exceeds maximum line length for Command Window display.  Elapsed time is 278.311097 seconds.  cterr =  (33554432000000000000\*exp(-(log(4504346951680107/1073741824) - 3)^2)\*cos(4504346951680107/1073741824))/13513040855040321 + (33554432000000000000\*exp(-(log(4509715660800107/1073741824) - 3)^2)\*cos(4509715660800107/1073741824))/13529146982400321 - (33554432000000000000\*exp(-(log(4515084369920107/1073741824) - 3)^2)\*cos(4515084369920107/1073741824))/13545253109760321 - (33554432000000000000\*exp(-(log(4520453079040107/1073741824) - 3)^2)\*cos(4520453079040107/1073741824))/13561359237120321 + (33554432000000000000\*exp(-(log(4525821788160107/1073741824) - 3)^2)\*cos(4525821788160107/1073741824))/13577465364480321 + (33554432000000000000\*exp(-(log(4531190497280107/1073741824) - 3)^2)\*cos(4531190497280107/1073741824))/13593571491840321 - (33554432000000000000\*exp(-(log(4536559206400107/1073741824) - 3)^2)\*cos(4536559206400107/1073741824))/13609677619200321 - (33554432000000000000\*exp(-(log(4541927915520107/1073741824) - 3)^2)\*cos(4541927915520107/1073741824))/13625783746560321 + (33554432000000000000\*exp(-(log(4547296624640107/1073741824) - 3)^2)\*cos(4547296624640107/1073741824))/13641889873920321 + (33554432000000000000\*exp(-(log(4552665333760107/1073741824) - 3)^2)\*cos(4552665333760107/1073741824))/13657996001280321 - (33554432000000000000\*exp(-(log(4558034042880107/1073741824) - 3)^2)\*cos(4558034042880107/1073741824))/13674102128640321 - (33554432000000000000\*exp(-(log(4563402752000107/1073741824) - 3)^2)\*cos(4563402752000107/1073741824))/13690208256000321 - (33554432000000000000\*exp(-(log(4568771461120107/1073741824) - 3)^2)\*cos(4568771461120107/1073741824))/13706314383360321 + (33554432000000000000\*exp(-(log(4574140170240107/1073741824) - 3)^2)\*cos(4574140170240107/1073741824))/13722420510720321 + (33554432000000000000\*exp(-(log(4579508879360107/1073741824) - 3)^2)\*cos(4579508879360107/1073741824))/13738526638080321 - (33554432000000000000\*exp(-(log(4584877588480107/1073741824) - 3)^2)\*cos(4584877588480107/1073741824))/13754632765440321 - (33554432000000000000\*exp(-(log(4590246297600107/1073741824) - 3)^2)\*cos(4590246297600107/1073741824))/13770738892800321 + (33554432000000000000\*exp(-(log(4595615006720107/1073741824) - 3)^2)\*cos(4595615006720107/1073741824))/13786845020160321 + (33554432000000000000\*exp(-(log(4600983715840107/1073741824) - 3)^2)\*cos(4600983715840107/1073741824))/13802951147520321 - (33554432000000000000\*exp(-(log(4606352424960107/1073741824) - 3)^2)\*cos(4606352424960107/1073741824))/13819057274880321 - (33554432000000000000\*exp(-(log(4611721134080107/1073741824) - 3)^2)\*cos(4611721134080107/1073741824))/13835163402240321 - (33554432000000000000\*exp(-(log(4617089843200107/1073741824) - 3)^2)\*cos(4617089843200107/1073741824))/13851269529600321 + (33554432000000000000\*exp(-(log(4622458552320107/1073741824) - 3)^2)\*cos(4622458552320107/1073741824))/13867375656960321 + (33554432000000000000\*exp(-(log(4627827261440107/1073741824) - 3)^2)\*cos(4627827261440107/1073741824))/13883481784320321 - (33554432000000000000\*exp(-(log(4633195970560107/1073741824) - 3)^2)\*cos(4633195970560107/1073741824))/13899587911680321 - (33554432000000000000\*exp(-(log(4638564679680107/1073741824) - 3)^2)\*cos(4638564679680107/1073741824))/13915694039040321 + (33554432000000000000\*exp(-(log(4643933388800107/1073741824) - 3)^2)\*cos(4643933388800107/1073741824))/13931800166400321 + (33554432000000000000\*exp(-(log(4649302097920107/1073741824) - 3)^2)\*cos(4649302097920107/1073741824))/13947906293760321 - (33554432000000000000\*exp(-(log(4654670807040107/1073741824) - 3)^2)\*cos(4654670807040107/1073741824))/13964012421120321 - (33554432000000000000\*exp(-(log(4660039516160107/1073741824) - 3)^2)\*cos(4660039516160107/1073741824))/13980118548480321 + (33554432000000000000\*exp(-(log(4665408225280107/1073741824) - 3)^2)\*cos(4665408225280107/1073741824))/13996224675840321 + (33554432000000000000\*exp(-(log(4670776934400107/1073741824) - 3)^2)\*cos(4670776934400107/1073741824))/14012330803200321 + (33554432000000000000\*exp(-(log(4676145643520107/1073741824) - 3)^2)\*cos(4676145643520107/1073741824))/14028436930560321 - (33554432000000000000\*exp(-(log(4681514352640107/1073741824) - 3)^2)\*cos(4681514352640107/1073741824))/14044543057920321 - (33554432000000000000\*exp(-(log(4686883061760107/1073741824) - 3)^2)\*cos(4686883061760107/1073741824))/14060649185280321 + (33554432000000000000\*exp(-(log(4692251770880107/1073741824) - 3)^2)\*cos(4692251770880107/1073741824))/14076755312640321 + (33554432000000000000\*exp(-(log(4697620480000107/1073741824) - 3)^2)\*cos(4697620480000107/1073741824))/14092861440000321 - (33554432000000000000\*exp(-(log(4702989189120107/1073741824) - 3)^2)\*cos(4702989189120107/1073741824))/14108967567360321 - (33554432000000000000\*exp(-(log(4708357898240107/1073741824) - 3)^2)\*cos(4708357898240107/1073741824))/14125073694720321 + (33554432000000000000\*exp(-(log(4713726607360107/1073741824) - 3)^2)\*cos(4713726607360107/1073741824))/14141179822080321 + (33554432000000000000\*exp(-(log(4719095316480107/1073741824) - 3)^2)\*cos(4719095316480107/1073741824))/14157285949440321 - (33554432000000000000\*exp(-(log(4724464025600107/1073741824) - 3)^2)\*cos(4724464025600107/1073741824))/14173392076800321 - (33554432000000000000\*exp(-(log(4729832734720107/1073741824) - 3)^2)\*cos(4729832734720107/1073741824))/14189498204160321 - (33554432000000000000\*exp(-(log(4735201443840107/1073741824) - 3)^2)\*cos(4735201443840107/1073741824))/14205604331520321 + (33554432000000000000\*exp(-(log(4740570152960107/1073741824) - 3)^2)\*cos(4740570152960107/1073741824))/14221710458880321 + (33554432000000000000\*exp(-(log(4745938862080107/1073741824) - 3)^2)\*cos(4745938862080107/1073741824))/14237816586240321 - (33554432000000000000\*exp(-(log(4751307571200107/1073741824) - 3)^2)\*cos(4751307571200107/1073741824))/14253922713600321 - (33554432000000000000\*exp(-(log(4756676280320107/1073741824) - 3)^2)\*cos(4756676280320107/1073741824))/14270028840960321 + (33554432000000000000\*exp(-(log(4762044989440107/1073741824) - 3)^2)\*cos(4762044989440107/1073741824))/14286134968320321 + (33554432000000000000\*exp(-(log(4767413698560107/1073741824) - 3)^2)\*cos(4767413698560107/1073741824))/14302241095680321 - (33554432000000000000\*exp(-(log(4772782407680107/1073741824) - 3)^2)\*cos(4772782407680107/1073741824))/14318347223040321 - (33554432000000000000\*exp(-(log(4778151116800107/1073741824) - 3)^2)\*cos(4778151116800107/1073741824))/14334453350400321 - (33554432000000000000\*exp(-(log(4783519825920107/1073741824) - 3)^2)\*cos(4783519825920107/1073741824))/14350559477760321 + (33554432000000000000\*exp(-(log(4788888535040107/1073741824) - 3)^2)\*cos(4788888535040107/1073741824))/14366665605120321 + (33554432000000000000\*exp(-(log(4794257244160107/1073741824) - 3)^2)\*cos(4794257244160107/1073741824))/14382771732480321 - (33554432000000000000\*exp(-(log(4799625953280107/1073741824) - 3)^2)\*cos(4799625953280107/1073741824))/14398877859840321 - (33554432000000000000\*exp(-(log(4804994662400107/1073741824) - 3)^2)\*cos(4804994662400107/1073741824))/14414983987200321 + (33554432000000000000\*exp(-(log(4810363371520107/1073741824) - 3)^2)\*cos(4810363371520107/1073741824))/14431090114560321 + (33554432000000000000\*exp(-(log(4815732080640107/1073741824) - 3)^2)\*cos(4815732080640107/1073741824))/14447196241920321 - (33554432000000000000\*exp(-(log(4821100789760107/1073741824) - 3)^2)\*cos(4821100789760107/1073741824))/14463302369280321 - (33554432000000000000\*exp(-(log(4826469498880107/1073741824) - 3)^2)\*cos(4826469498880107/1073741824))/14479408496640321 + (33554432000000000000\*exp(-(log(4831838208000107/1073741824) - 3)^2)\*cos(4831838208000107/1073741824))/14495514624000321 + (33554432000000000000\*exp(-(log(4837206917120107/1073741824) - 3)^2)\*cos(4837206917120107/1073741824))/14511620751360321 + (33554432000000000000\*exp(-(log(4842575626240107/1073741824) - 3)^2)\*cos(4842575626240107/1073741824))/14527726878720321 - (33554432000000000000\*exp(-(log(4847944335360107/1073741824) - 3)^2)\*cos(4847944335360107/1073741824))/14543833006080321 - (33554432000000000000\*exp(-(log(4853313044480107/1073741824) - 3)^2)\*cos(4853313044480107/1073741824))/14559939133440321 + (33554432000000000000\*exp(-(log(4858681753600107/1073741824) - 3)^2)\*cos(4858681753600107/1073741824))/14576045260800321 + (33554432000000000000\*exp(-(log(4864050462720107/1073741824) - 3)^2)\*cos(4864050462720107/1073741824))/14592151388160321 - (33554432000000000000\*exp(-(log(4869419171840107/1073741824) - 3)^2)\*cos(4869419171840107/1073741824))/14608257515520321 - (33554432000000000000\*exp(-(log(4874787880960107/1073741824) - 3)^2)\*cos(4874787880960107/1073741824))/14624363642880321 + (33554432000000000000\*exp(-(log(4880156590080107/1073741824) - 3)^2)\*cos(4880156590080107/1073741824))/14640469770240321 + (33554432000000000000\*exp(-(log(4885525299200107/1073741824) - 3)^2)\*cos(4885525299200107/1073741824))/14656575897600321 + (33554432000000000000\*exp(-(log(4890894008320107/1073741824) - 3)^2)\*cos(4890894008320107/1073741824))/14672682024960321 - (33554432000000000000\*exp(-(log(4896262717440107/1073741824) - 3)^2)\*cos(4896262717440107/1073741824))/14688788152320321 - (33554432000000000000\*exp(-(log(4901631426560107/1073741824) - 3)^2)\*cos(4901631426560107/1073741824))/14704894279680321 + (33554432000000000000\*exp(-(log(4907000135680107/1073741824) - 3)^2)\*cos(4907000135680107/1073741824))/14721000407040321 + (33554432000000000000\*exp(-(log(4912368844800107/1073741824) - 3)^2)\*cos(4912368844800107/1073741824))/14737106534400321 - (33554432000000000000\*exp(-(log(4917737553920107/1073741824) - 3)^2)\*cos(4917737553920107/1073741824))/14753212661760321 - (33554432000000000000\*exp(-(log(4923106263040107/1073741824) - 3)^2)\*cos(4923106263040107/1073741824))/14769318789120321 + (33554432000000000000\*exp(-(log(4928474972160107/1073741824) - 3)^2)\*cos(4928474972160107/1073741824))/14785424916480321 + (33554432000000000000\*exp(-(log(4933843681280107/1073741824) - 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3)^2)\*cos(5019743027200107/1073741824))/15059229081600321 + (33554432000000000000\*exp(-(log(5025111736320107/1073741824) - 3)^2)\*cos(5025111736320107/1073741824))/15075335208960321 + (33554432000000000000\*exp(-(log(5030480445440107/1073741824) - 3)^2)\*cos(5030480445440107/1073741824))/15091441336320321 - (33554432000000000000\*exp(-(log(5035849154560107/1073741824) - 3)^2)\*cos(5035849154560107/1073741824))/15107547463680321 - (33554432000000000000\*exp(-(log(5041217863680107/1073741824) - 3)^2)\*cos(5041217863680107/1073741824))/15123653591040321 + (33554432000000000000\*exp(-(log(5046586572800107/1073741824) - 3)^2)\*cos(5046586572800107/1073741824))/15139759718400321 + (33554432000000000000\*exp(-(log(5051955281920107/1073741824) - 3)^2)\*cos(5051955281920107/1073741824))/15155865845760321 + (33554432000000000000\*exp(-(log(5057323991040107/1073741824) - 3)^2)\*cos(5057323991040107/1073741824))/15171971973120321 - (33554432000000000000\*exp(-(log(5062692700160107/1073741824) - 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3)^2)\*cos(5792837140480107/1073741824))/17378511421440321 - (33554432000000000000\*exp(-(log(5798205849600107/1073741824) - 3)^2)\*cos(5798205849600107/1073741824))/17394617548800321 - (33554432000000000000\*exp(-(log(5803574558720107/1073741824) - 3)^2)\*cos(5803574558720107/1073741824))/17410723676160321 + (33554432000000000000\*exp(-(log(5808943267840107/1073741824) - 3)^2)\*cos(5808943267840107/1073741824))/17426829803520321 + (33554432000000000000\*exp(-(log(5814311976960107/1073741824) - 3)^2)\*cos(5814311976960107/1073741824))/17442935930880321 + (33554432000000000000\*exp(-(log(5819680686080107/1073741824) - 3)^2)\*cos(5819680686080107/1073741824))/17459042058240321 - (33554432000000000000\*exp(-(log(5825049395200107/1073741824) - 3)^2)\*cos(5825049395200107/1073741824))/17475148185600321 - (33554432000000000000\*exp(-(log(5830418104320107/1073741824) - 3)^2)\*cos(5830418104320107/1073741824))/17491254312960321 + (33554432000000000000\*exp(-(log(5835786813440107/1073741824) - 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3)^2)\*cos(5878736486400107/1073741824))/17636209459200321 + (33554432000000000000\*exp(-(log(5884105195520107/1073741824) - 3)^2)\*cos(5884105195520107/1073741824))/17652315586560321 + (33554432000000000000\*exp(-(log(5889473904640107/1073741824) - 3)^2)\*cos(5889473904640107/1073741824))/17668421713920321 - (33554432000000000000\*exp(-(log(5894842613760107/1073741824) - 3)^2)\*cos(5894842613760107/1073741824))/17684527841280321 - (33554432000000000000\*exp(-(log(5900211322880107/1073741824) - 3)^2)\*cos(5900211322880107/1073741824))/17700633968640321 + (33554432000000000000\*exp(-(log(5905580032000107/1073741824) - 3)^2)\*cos(5905580032000107/1073741824))/17716740096000321 + (33554432000000000000\*exp(-(log(5910948741120107/1073741824) - 3)^2)\*cos(5910948741120107/1073741824))/17732846223360321 - (33554432000000000000\*exp(-(log(5916317450240107/1073741824) - 3)^2)\*cos(5916317450240107/1073741824))/17748952350720321 - (33554432000000000000\*exp(-(log(5921686159360107/1073741824) - 3)^2)\*cos(5921686159360107/1073741824))/17765058478080321 - (33554432000000000000\*exp(-(log(5927054868480107/1073741824) - 3)^2)\*cos(5927054868480107/1073741824))/17781164605440321 + (33554432000000000000\*exp(-(log(5932423577600107/1... Output truncated. Text exceeds maximum line length for Command Window display.  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3)^2)\*cos(4525821788160107/1073741824))/5696505212635363117564764532681350945600537370102840884715896526636255938951921 + (1473410542016310090778882933123830039481371661749387491686053017113348538368000000000000\*exp(-(log(4531190497280107/1073741824) - 3)^2)\*cos(4531190497280107/1073741824))/5730372567880603392275556553776527468419185150147656160286823005960787855751921 - (4441217852091791286051293307056032178815733387532345019053020555046608175104000000000000\*exp(-(log(4536559206400107/1073741824) - 3)^2)\*cos(4536559206400107/1073741824))/17293202438504750759863314159583230069842049088292715578367935050665815317655763 - (1487426239285160490594208478537075246990775800456655192441469506287323578368000000000000\*exp(-(log(4541927915520107/1073741824) - 3)^2)\*cos(4541927915520107/1073741824))/5798590520058741698812520800044266350776406572913381408283960872379707689351921 + (498157155567394940784091363425094635110089058060597019649464817642903699456000000000000\*exp(-(log(4547296624640107/1073741824) - 3)^2)\*cos(4547296624640107/1073741824))/1944314087823097688313183892176798604351765939578234330522345361798031868717307 + (4504625075820631388569217622684505635539494097608947706350765490819095855104000000000000\*exp(-(log(4552665333760107/1073741824) - 3)^2)\*cos(4552665333760107/1073741824))/17602369855026508037874620648454959896618487880725230428367410106675306568855763 - (502878991353600092464922447263066405764241924875233324037681703440095379456000000000000\*exp(-(log(4558034042880107/1073741824) - 3)^2)\*cos(4558034042880107/1073741824))/1967378053770985838226128713966991042879989342672354111357954211944242479917307 - (1515757372195206290978574245750450845952685749810757139690277765070473658368000000000000\*exp(-(log(4563402752000107/1073741824) - 3)^2)\*cos(4563402752000107/1073741824))/5936975470378838842751506904464892959472139571907335566136480999176971356551921 - (4568708836633109065026283740907809686921773773122934688568959799570783535104000000000000\*exp(-(log(4568771461120107/1073741824) - 3)^2)\*cos(4568771461120107/1073741824))/17915943374700583662974395661269233070714576029155358874707778315653501820055763 + (1530073753378920813942648581034941037701133548187864353539725086679648698368000000000000\*exp(-(log(4574140170240107/1073741824) - 3)^2)\*cos(4574140170240107/1073741824))/6007151705602211479695596610447843366609359975910615338126799466915315190151921 + (1537269855039179171960608724935353817009481821378260244256566697538636218368000000000000\*exp(-(log(4579508879360107/1073741824) - 3)^2)\*cos(4579508879360107/1073741824))/6042487794576487708965636937503681086108228670293431832011369797229415106951921 - (4633473929805460278898199191171007955913849682983062764331314713301671215104000000000000\*exp(-(log(4584877588480107/1073741824) - 3)^2)\*cos(4584877588480107/1073741824))/18233969925847914737086049835140342709473093620163051363474719027360401071255763 - (1551738177546541400585498557184986834522662867673678358792453179365411258368000000000000\*exp(-(log(4590246297600107/1073741824) - 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3)^2)\*cos(4633195970560107/1073741824))/19215242038930982743648493433933246269492437805399665836986713676453322824855763 - (1618113406888925528068797815472730686063327127220817352053163595381098938368000000000000\*exp(-(log(4638564679680107/1073741824) - 3)^2)\*cos(4638564679680107/1073741824))/6442276170059143045432767034650618503724253560770563254145362465941346191751921 + (541872562789815380118566917179200525900839565257432491094084503558428819456000000000000\*exp(-(log(4643933388800107/1073741824) - 3)^2)\*cos(4643933388800107/1073741824))/2159881420336865918780808718003825204414887778194372293054038943511623369517307 + (4899444124324623222607817996658465043720627965757615072154165058017221935104000000000000\*exp(-(log(4649302097920107/1073741824) - 3)^2)\*cos(4649302097920107/1073741824))/19551556657497251992134564374939286648313729611529950537099329896675038076055763 - (546901508807059356637539138028916256992753169787731808367307197790820499456000000000000\*exp(-(log(4654670807040107/1073741824) - 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3)^2)\*cos(5041217863680107/1073741824))/3255947043018571217163919118906623706819269649907689275891710125857479983917307 + (2267072457377147499030533245537323547105839559959182145213119861099350458368000000000000\*exp(-(log(5046586572800107/1073741824) - 3)^2)\*cos(5046586572800107/1073741824))/9819963962232507572370562743605428417660801433639671703053870988412363868551921 + (6830204938419914832888520142713001487799894018412869980997058217449413935104000000000000\*exp(-(log(5051955281920107/1073741824) - 3)^2)\*cos(5051955281920107/1073741824))/29616927201722632279848883313869427626480992511903411240752131525046719356055763 + (134495785634628834403329230163182768556636001115683681711754573484501499904000000000000\*exp(-(log(5057323991040107/1073741824) - 3)^2)\*cos(5057323991040107/1073741824))/583816303189039194845329956225548466314709658851701435592370497078945158950113 - (2296152651935647099966878044008971418312566321553950516908418363359513018368000000000000\*exp(-(log(5062692700160107/1073741824) - 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3)^2)\*cos(5148592046080107/1073741824))/1915296412470712103604295831089456768117161265212981187472605428905023227250339 - (2466260336669578719324882127697208096941819477132350135173940588999100858368000000000000\*exp(-(log(5153960755200107/1073741824) - 3)^2)\*cos(5153960755200107/1073741824))/10910051262610829551547035024943468303739323981315076299949498352300762204551921 - (2476552488941271213229843931371384182010349937890091617676775787774888378368000000000000\*exp(-(log(5159329464320107/1073741824) - 3)^2)\*cos(5159329464320107/1073741824))/10966992951281323762698818097234335028178192789892200385002089775769678121351921 - (7460630462760028304732997163589437332806322927907272399942367675760827695104000000000000\*exp(-(log(5164698173440107/1073741824) - 3)^2)\*cos(5164698173440107/1073741824))/33072516432005510860464470816010713131518767535824298210221595641485638114455763 + (2497233399611920458084466528006918516944836319583990679229254373435263418368000000000000\*exp(-(log(5170066882560107/1073741824) - 3)^2)\*cos(5170066882560107/1073741824))/11081589582971721351966945772448363475819974319276046967570485379437365954951921 + (835874097364273505396472541345244302265585882401592624384321568106616979456000000000000\*exp(-(log(5175435591680107/1073741824) - 3)^2)\*cos(5175435591680107/1073741824))/3713082003978322667206045301401742653834055218071506824339092728518712623917307 - (7554130696524645007164227568743672982339713762670347860210701069722115375104000000000000\*exp(-(log(5180804300800107/1073741824) - 3)^2)\*cos(5180804300800107/1073741824))/33591426528545437245030089780648597666812902734826895065033716235434585365655763 - (842832429024432823188572326557877677571151573206892926295631600732608659456000000000000\*exp(-(log(5186173009920107/1073741824) - 3)^2)\*cos(5186173009920107/1073741824))/3751759607516780075816858641865007211742934040291185781724343123721179235117307 + (2538983524072954630330668990741804149947063572632483829096301513191213498368000000000000\*exp(-(log(5191541719040107/1073741824) - 3)^2)\*cos(5191541719040107/1073741824))/11313656699428092850641661682493339804911339628012969728098979576572165622151921 + (7648507031585269071042936381839563040082593878250676612337981884662603055104000000000000\*exp(-(log(5196910428160107/107374... Output truncated. Text exceeds maximum line length for Command Window display.  ans =  1  Elapsed time is 76.169147 seconds. |

Comparison between the two methods (Substitution & Maximization):

|  |
| --- |
| >> sign(cserr-cserrs)  ans =  1  >> sign(cterr-cterrs)  ans =  -1 |