

Integrals between roots:

```
Return from fm_integrate. Function n = 1. a, b =
3.1830988618379067153776752674502872406891929148091M-1
1.0000000000000000000000000000000000000000000000000000000M+0
tol = 1.00000000M-50
625 function calls were made in 0.00898 seconds.
result =
5.7773497395335385797995708297129790149486249054126M-1
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Return from fm_integrate. Function n = 1. a, b =
1.5915494309189533576888376337251436203445964574046M-1
3.1830988618379067153776752674502872406891929148091M-1
tol = 1.00000000M-50
621 function calls were made in 0.00597 seconds.
result =
-9.6228573792771553633639743773196105517247510129242M-2
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Return from fm_integrate. Function n = 1. a, b =
1.0610329539459689051258917558167624135630643049364M-1
1.5915494309189533576888376337251436203445964574046M-1
tol = 1.00000000M-50
621 function calls were made in 0.00633 seconds.
result =
3.3180864711596355781994042373404339367978767297861M-2
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```
Return from fm_integrate. Function n = 1. a, b =
7.9577471545947667884441881686257181017229822870228M-2
1.0610329539459689051258917558167624135630643049364M-1
tol = 1.00000000M-50
621 function calls were made in 0.00640 seconds.
result =
-1.6736842097169861026409348609048821723188584590872M-2
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```
Return from fm_integrate. Function n = 1. a, b =
6.3661977236758134307553505349005744813783858296183M-2
7.9577471545947667884441881686257181017229822870228M-2
tol = 1.00000000M-50
621 function calls were made in 0.00634 seconds.
result =
1.0077845305950019642685759008299999650904096129034M-2
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```
Return from fm_integrate. Function n = 1. a, b =
5.3051647697298445256294587790838120678153215246819M-2
6.3661977236758134307553505349005744813783858296183M-2
tol = 1.00000000M-50
621 function calls were made in 0.00662 seconds.
result =
-6.7305647848881219591595276553340100530447093910962M-3
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```
Return from fm_integrate. Function n = 1. a, b =
4.5472840883398667362538218106432674866988470211559M-2
5.3051647697298445256294587790838120678153215246819M-2
tol = 1.00000000M-50
621 function calls were made in 0.00641 seconds.
result =
4.8124637259854815149951412808414283663588084602332M-3
```

Return from fm_integrate. Function n = 1. a, b =
3.9788735772973833942220940843128590508614911435114M-2
4.5472840883398667362538218106432674866988470211559M-2
tol = 1.00000000M-50
621 function calls were made in 0.00621 seconds.
result =
-3.6116581364203427781559143010239762465442039949795M-3

Return from fm_integrate. Function n = 1. a, b =
3.5367765131532296837529725193892080452102143497879M-2
3.9788735772973833942220940843128590508614911435114M-2
tol = 1.00000000M-50
621 function calls were made in 0.00691 seconds.
result =
2.8102671575628038940615327469723195840226819043156M-3

Return from fm_integrate. Function n = 1. a, b =
3.1830988618379067153776752674502872406891929148091M-2
3.5367765131532296837529725193892080452102143497879M-2
tol = 1.00000000M-50
621 function calls were made in 0.00663 seconds.
result =
-2.2488862410230300914055173622976629168781558361034M-3

Return from fm_integrate. Function n = 1. a, b =
2.8937262380344606503433411522275338551719935589174M-2
3.1830988618379067153776752674502872406891929148091M-2
tol = 1.00000000M-50
621 function calls were made in 0.00637 seconds.
result =
1.8403982929350623051957818165016726350960091535237M-3

Return from fm_integrate. Function n = 1. a, b =
2.6525823848649222628147293895419060339076607623409M-2
2.8937262380344606503433411522275338551719935589174M-2
tol = 1.00000000M-50
621 function calls were made in 0.00642 seconds.
result =
-1.5339156626900416961202091061368634142959471984706M-3

Return from fm_integrate. Function n = 1. a, b =
2.4485375860291590118289809749617594159147637806224M-2
2.6525823848649222628147293895419060339076607623409M-2
tol = 1.00000000M-50
621 function calls were made in 0.00635 seconds.
result =
1.2980916969380423515993143652677315703245712036171M-3

Return from fm_integrate. Function n = 1. a, b =
2.2736420441699333681269109053216337433494235105779M-2
2.4485375860291590118289809749617594159147637806224M-2
tol = 1.00000000M-50
621 function calls were made in 0.00641 seconds.
result =
-1.1127598753535391590285313280015686544824357511656M-3

Return from fm_integrate. Function n = 1. a, b =

2.1220659078919378102517835116335248271261286098728M-2
2.2736420441699333681269109053216337433494235105779M-2
tol = 1.00000000M-50
621 function calls were made in 0.00647 seconds.
result =
9.6446807289368045273787963558122035192387459329343M-4

Return from fm_integrate. Function n = 1. a, b =
1.9894367886486916971110470421564295254307455717557M-2
2.1220659078919378102517835116335248271261286098728M-2
tol = 1.00000000M-50
621 function calls were made in 0.00659 seconds.
result =
-8.4396373434894899866832088007053121084009946923993M-4

Return from fm_integrate. Function n = 1. a, b =
1.8724110951987686561045148632060513180524664204760M-2
1.9894367886486916971110470421564295254307455717557M-2
tol = 1.00000000M-50
621 function calls were made in 0.00631 seconds.
result =
7.4471325229874937459913970823438943616409497057278M-4

Return from fm_integrate. Function n = 1. a, b =
1.7683882565766148418764862596946040226051071748940M-2
1.8724110951987686561045148632060513180524664204760M-2
tol = 1.00000000M-50
621 function calls were made in 0.00614 seconds.
result =
-6.6199650153356654003427782048208274113528131063151M-4

Return from fm_integrate. Function n = 1. a, b =
1.6753151904410035344093027723422564424679962709522M-2
1.7683882565766148418764862596946040226051071748940M-2
tol = 1.00000000M-50
621 function calls were made in 0.00652 seconds.
result =
5.9233463733505375347014019529942579221907077086518M-4

Return from fm_integrate. Function n = 1. a, b =
1.5915494309189533576888376337251436203445964574046M-2
1.6753151904410035344093027723422564424679962709522M-2
tol = 1.00000000M-50
621 function calls were made in 0.00643 seconds.
result =
-5.3311798841531562023350240939207055336311781214489M-4

Return from fm_integrate. Function n = 1. a, b =
1.5157613627799555787512739368810891622329490070520M-2
1.5915494309189533576888376337251436203445964574046M-2
tol = 1.00000000M-50
621 function calls were made in 0.00630 seconds.
result =
4.8235788777450657515076377985962040589648695285535M-4

Return from fm_integrate. Function n = 1. a, b =
1.4468631190172303251716705761137669275859967794587M-2
1.5157613627799555787512739368810891622329490070520M-2

tol = 1.00000000M-50
621 function calls were made in 0.00642 seconds.
result =
-4.3851741030594606945256154026332904362633537268501M-4

Return from fm_integrate. Function n = 1. a, b =
1.3839560268860463979902935945436031481257360499170M-2
1.4468631190172303251716705761137669275859967794587M-2
tol = 1.00000000M-50
621 function calls were made in 0.00657 seconds.
result =
4.0039359181372799475476291433473430977752954516511M-4

Return from fm_integrate. Function n = 1. a, b =
1.3262911924324611314073646947709530169538303811705M-2
1.3839560268860463979902935945436031481257360499170M-2
tol = 1.00000000M-50
621 function calls were made in 0.00643 seconds.
result =
-3.6703398062698571316534724841529488585193177550332M-4

Return from fm_integrate. Function n = 1. a, b =
1.2732395447351626861510701069801148962756771659237M-2
1.3262911924324611314073646947709530169538303811705M-2
tol = 1.00000000M-50
621 function calls were made in 0.00673 seconds.
result =
3.3767654219762446815415178566553423395675469131575M-4

Return from fm_integrate. Function n = 1. a, b =
1.2242687930145795059144904874808797079573818903112M-2
1.2732395447351626861510701069801148962756771659237M-2
tol = 1.00000000M-50
621 function calls were made in 0.00661 seconds.
result =
-3.1170573523852430021253592804581644048256788383789M-4

Return from fm_integrate. Function n = 1. a, b =
1.1789255043844098945843241731297360150700714499293M-2
1.2242687930145795059144904874808797079573818903112M-2
tol = 1.00000000M-50
621 function calls were made in 0.00636 seconds.
result =
2.8861997034583100324374901153604389973686035286819M-4

Return from fm_integrate. Function n = 1. a, b =
1.1368210220849666840634554526608168716747117552890M-2
1.1789255043844098945843241731297360150700714499293M-2
tol = 1.00000000M-50
621 function calls were made in 0.00648 seconds.
result =
-2.6800720054138336131098160055242090200376319832173M-4

Return from fm_integrate. Function n = 1. a, b =
1.0976202971854850742681638853276852554100665223480M-2
1.1368210220849666840634554526608168716747117552890M-2
tol = 1.00000000M-50
621 function calls were made in 0.00701 seconds.

result =
2.4952640145317214191596122244396516920735800873345M-4

Return from fm_integrate. Function n = 1. a, b =
1.0610329539459689051258917558167624135630643049364M-2
1.0976202971854850742681638853276852554100665223480M-2
tol = 1.00000000M-50
621 function calls were made in 0.00642 seconds.

result =
-2.3289337121826420623792095344991661039717552361643M-4

Return from fm_integrate. Function n = 1. a, b =
1.0268060844638408759282823443388023357061912628417M-2
1.0610329539459689051258917558167624135630643049364M-2
tol = 1.00000000M-50
621 function calls were made in 0.00644 seconds.

result =
2.1786973577394368794601739959139657769968379144558M-4

Return from fm_integrate. Function n = 1. a, b =
9.947183943243458485552352107821476271537278587785M-3
1.0268060844638408759282823443388023357061912628417M-2
tol = 1.00000000M-50
621 function calls were made in 0.00660 seconds.

result =
-2.0425435848059641559432926891074765685842612891265M-4

Return from fm_integrate. Function n = 1. a, b =
9.6457541267815355011444705074251128505733118630580M-3
9.947183943243458485552352107821476271537278587785M-3
tol = 1.00000000M-50
621 function calls were made in 0.00623 seconds.

result =
1.9187657140587402246697106553406753899398849047258M-4

Return from fm_integrate. Function n = 1. a, b =
9.3620554759938432805225743160302565902623321023798M-3
9.6457541267815355011444705074251128505733118630580M-3
tol = 1.00000000M-50
621 function calls were made in 0.00634 seconds.

result =
-1.8059079978042413919133604914887593712362940610981M-4

Return from fm_integrate. Function n = 1. a, b =
9.0945681766797334725076436212865349733976940423118M-3
9.3620554759938432805225743160302565902623321023798M-3
tol = 1.00000000M-50
621 function calls were made in 0.00677 seconds.

result =
1.7027226128126681454259089148426239571378758238401M-4

Return from fm_integrate. Function n = 1. a, b =
8.8419412828830742093824312984730201130255358744698M-3
9.0945681766797334725076436212865349733976940423118M-3
tol = 1.00000000M-50
621 function calls were made in 0.00662 seconds.

result =
-1.6081350135953799080043622448753126373734168840804M-4

Return from fm_integrate. Function n = 1. a, b =
8.6029698968592073388585818039196952451059267967814M-3
8.8419412828830742093824312984730201130255358744698M-3
tol = 1.00000000M-50
621 function calls were made in 0.00646 seconds.
result =
1.5212158389430460127924540697010739294800761247526M-4

Return from fm_integrate. Function n = 1. a, b =
8.3765759522050176720465138617112822123399813547609M-3
8.6029698968592073388585818039196952451059267967814M-3
tol = 1.00000000M-50
621 function calls were made in 0.00649 seconds.
result =
-1.4411579924372293791227428109424123492310093409012M-4

Return from fm_integrate. Function n = 1. a, b =
8.1617919534305300394299365832058647197158792687414M-3
8.3765759522050176720465138617112822123399813547609M-3
tol = 1.00000000M-50
621 function calls were made in 0.00652 seconds.
result =
1.3672578358598241725263662843047257818711863995222M-4

Return from fm_integrate. Function n = 1. a, b =
7.9577471545947667884441881686257181017229822870228M-3
8.1617919534305300394299365832058647197158792687414M-3
tol = 1.00000000M-50
621 function calls were made in 0.00650 seconds.
result =
-1.2988996731061175887189212425497742473688617811831M-4

Return from fm_integrate. Function n = 1. a, b =
7.7636557605802602814089640669519200992419339385589M-3
7.9577471545947667884441881686257181017229822870228M-3
tol = 1.00000000M-50
621 function calls were made in 0.00638 seconds.
result =
1.2355428826892943605251590936521389835040680212239M-4

Return from fm_integrate. Function n = 1. a, b =
7.5788068138997778937563696844054458111647450352598M-3
7.7636557605802602814089640669519200992419339385589M-3
tol = 1.00000000M-50
621 function calls were made in 0.00643 seconds.
result =
-1.1767111944453139652987438187844291342414197131231M-4

Return from fm_integrate. Function n = 1. a, b =
7.4025554926462946869248262033727610248585881739747M-3
7.5788068138997778937563696844054458111647450352598M-3
tol = 1.00000000M-50
621 function calls were made in 0.00634 seconds.
result =
1.1219837115943179072872419273131921940135280335786M-4

Return from fm_integrate. Function n = 1. a, b =

7.2343155950861516258583528805688346379299838972935M-3
7.4025554926462946869248262033727610248585881739747M-3
tol = 1.00000000M-50
621 function calls were made in 0.00640 seconds.
result =
-1.0709873608794940468553362334391968108744237096099M-4

Return from fm_integrate. Function n = 1. a, b =
7.0735530263064593675059450387784160904204286995758M-3
7.2343155950861516258583528805688346379299838972935M-3
tol = 1.00000000M-50
621 function calls were made in 0.00634 seconds.
result =
1.0233905169475863827683355397591281242449259079633M-4

Return from fm_integrate. Function n = 1. a, b =
6.9197801344302319899514679727180157406286802495851M-3
7.0735530263064593675059450387784160904204286995758M-3
tol = 1.00000000M-50
621 function calls were made in 0.00643 seconds.
result =
-9.7889759678938849015301081658260797065838438006721M-5

Return from fm_integrate. Function n = 1. a, b =
6.7725507698678866284631388669155047674238147123598M-3
6.9197801344302319899514679727180157406286802495851M-3
tol = 1.00000000M-50
621 function calls were made in 0.00629 seconds.
result =
9.3724445915011925391242794678458608638664095250085M-5

Return from fm_integrate. Function n = 1. a, b =
6.6314559621623056570368234738547650847691519058524M-3
6.7725507698678866284631388669155047674238147123598M-3
tol = 1.00000000M-50
621 function calls were made in 0.00631 seconds.
result =
-8.9819447476863017180636723649087556595766557841746M-5

Return from fm_integrate. Function n = 1. a, b =
6.4961201261998096232197454437760964095697814587941M-3
6.6314559621623056570368234738547650847691519058524M-3
tol = 1.00000000M-50
621 function calls were made in 0.00636 seconds.
result =
8.6153515793847338177484856712098530836444250364711M-5

Return from fm_integrate. Function n = 1. a, b =
6.3661977236758134307553505349005744813783858296183M-3
6.4961201261998096232197454437760964095697814587941M-3
tol = 1.00000000M-50
621 function calls were made in 0.00664 seconds.
result =
-8.2707526959199193929850083657079875872737212256448M-5

Return from fm_integrate. Function n = 1. a, b =
6.2413703173292288536817162106868377268415547349199M-3
6.3661977236758134307553505349005744813783858296183M-3

tol = 1.00000000M-50
621 function calls were made in 0.00654 seconds.
result =
7.9464231795303980429774389597786027249199929561706M-5

Return from fm_integrate. Function n = 1. a, b =
6.1213439650728975295724524374043985397869094515560M-3
6.2413703173292288536817162106868377268415547349199M-3
tol = 1.00000000M-50
621 function calls were made in 0.00647 seconds.
result =
-7.6408039560187047731158683309697309137258889407026M-5

Return from fm_integrate. Function n = 1. a, b =
6.0058469091281258780710854102835608314890432354889M-3
6.1213439650728975295724524374043985397869094515560M-3
tol = 1.00000000M-50
621 function calls were made in 0.00635 seconds.
result =
7.3524830217933700762320034694714168544873395150600M-5

Return from fm_integrate. Function n = 1. a, b =
5.8946275219220494729216208656486800753503572496465M-3
6.0058469091281258780710854102835608314890432354889M-3
tol = 1.00000000M-50
621 function calls were made in 0.00645 seconds.
result =
-7.0801791041854841486423083558844940425665702086153M-5

Return from fm_integrate. Function n = 1. a, b =
5.7874524760689213006866823044550677103439871178348M-3
5.8946275219220494729216208656486800753503572496465M-3
tol = 1.00000000M-50
621 function calls were made in 0.00635 seconds.
result =
6.8227274011498760067944465378134525472431884883106M-5

Return from fm_integrate. Function n = 1. a, b =
5.6841051104248334203172772633040843583735587764449M-3
5.7874524760689213006866823044550677103439871178348M-3
tol = 1.00000000M-50
621 function calls were made in 0.00655 seconds.
result =
-6.5790671033290244633203037426855268187281380481245M-5

Return from fm_integrate. Function n = 1. a, b =
5.5843839681366784480310092411408548082266542365072M-3
5.6841051104248334203172772633040843583735587764449M-3
tol = 1.00000000M-50
621 function calls were made in 0.00626 seconds.
result =
6.3482304483503646564092990612286008535876661324845M-5

Return from fm_integrate. Function n = 1. a, b =
5.4881014859274253713408194266384262770503326117399M-3
5.5843839681366784480310092411408548082266542365072M-3
tol = 1.00000000M-50
621 function calls were made in 0.00636 seconds.

result =
-6.1293330960363211958424800374091146005822128746880M-5

Return from fm_integrate. Function n = 1. a, b =
5.3950828166744181616570767244920122723545642623884M-3
5.4881014859274253713408194266384262770503326117399M-3
tol = 1.00000000M-50
621 function calls were made in 0.00634 seconds.

result =
5.9215656454381444087235576403552486994663688393658M-5

Return from fm_integrate. Function n = 1. a, b =
5.3051647697298445256294587790838120678153215246819M-3
5.3950828166744181616570767244920122723545642623884M-3
tol = 1.00000000M-50
621 function calls were made in 0.00676 seconds.

result =
-5.7241861414650591764472053514846569963790588917501M-5

Return from fm_integrate. Function n = 1. a, b =
5.2181948554719782219306151925414544929331031390314M-3
5.3051647697298445256294587790838120678153215246819M-3
tol = 1.00000000M-50
621 function calls were made in 0.00638 seconds.

result =
5.5365134413378300357632712394995007180875981489352M-5

Return from fm_integrate. Function n = 1. a, b =
5.1340304223192043796414117216940116785309563142083M-3
5.2181948554719782219306151925414544929331031390314M-3
tol = 1.00000000M-50
621 function calls were made in 0.00641 seconds.

result =
-5.3579213299316539585433567854408575153569457159186M-5

Return from fm_integrate. Function n = 1. a, b =
5.0525378759331852625042464562702972074431633568399M-3
5.1340304223192043796414117216940116785309563142083M-3
tol = 1.00000000M-50
621 function calls were made in 0.00633 seconds.

result =
5.1878332889196134472973617847809604329953753104269M-5

Return from fm_integrate. Function n = 1. a, b =
4.9735919716217292427776176053910738135768639293893M-3
5.0525378759331852625042464562702972074431633568399M-3
tol = 1.00000000M-50
621 function calls were made in 0.00645 seconds.

result =
-5.0257178379985159390106501017437101883177310491479M-5

Return from fm_integrate. Function n = 1. a, b =
4.8970751720583180236579619499235188318295275612448M-3
4.9735919716217292427776176053910738135768639293893M-3
tol = 1.00000000M-50
621 function calls were made in 0.00635 seconds.

result =
4.8710843777927334889133495229348423512350591871567M-5

Return from fm_integrate. Function n = 1. a, b =
4.8228770633907677505722352537125564252866559315290M-3
4.8970751720583180236579619499235188318295275612448M-3
tol = 1.00000000M-50
621 function calls were made in 0.00664 seconds.
result =
-4.7234794736314030856813727016447915632879654576091M-5

Return from fm_integrate. Function n = 1. a, b =
4.7508938236386667393696645782840108069987953952375M-3
4.8228770633907677505722352537125564252866559315290M-3
tol = 1.00000000M-50
621 function calls were made in 0.00628 seconds.
result =
4.5824835275614330181373237114240044073311351650250M-5

Return from fm_integrate. Function n = 1. a, b =
4.6810277379969216402612871580151282951311660511899M-3
4.7508938236386667393696645782840108069987953952375M-3
tol = 1.00000000M-50
621 function calls were made in 0.00632 seconds.
result =
-4.4477077929249149316617406357842846681461367343560M-5

Return from fm_integrate. Function n = 1. a, b =
4.6131867562868213266343119818120104937524534997234M-3
4.6810277379969216402612871580151282951311660511899M-3
tol = 1.00000000M-50
621 function calls were made in 0.00610 seconds.
result =
4.3187916917861984346714594068317427007057653646353M-5

Return from fm_integrate. Function n = 1. a, b =
4.5472840883398667362538218106432674866988470211559M-3
4.6131867562868213266343119818120104937524534997234M-3
tol = 1.00000000M-50
621 function calls were made in 0.00697 seconds.
result =
-4.1954004005996653954691372546698910296838659928775M-5

Partial sums:

- .48150640016058230434631733919810179597761498041202
- .51468726487217866012831138157150613534559374770988
- .49795042277500879910190203296245731362240516311900
- .50802826808095881874458779197075731327330925924804
- .50129770329607069678542826431542330322026454985694
- .50611016702205617830042340559626473158662335831718
- .50249850888563583552226749129524075534007915432220
- .50530877604319863941632902404221307492410183622651
- .50305988980217560932492350667991541200722368039041
- .50490028809511067163011928849641708464231968954393
- .50336637243242062993399907939028022122802374234546
- .50466446412935867228559839375554795279834831354908
- .5035517042540051331265698624275463841438658779791
- .50451617232689881357930774206312760449578975239121
- .50367220859254986458063942118305707328494965292197
- .50441692184484861395523856089129146272111374789254

.50375492534331504741520428307080937997997846658191
.50434725998065010116867442326610880577219753735277
.50381414199223478554844092085671673521883441954063
.50429649988000929212359168463657635562473090649348
.50385798246970334605413912309631302658110457112080
.50425837606151707404889388601064776089088210066596
.50389134208089008833572853876223246600503016889046
.50422901862308771280388269054789800023898692358178
.50391731288784918850367015461985218379850435569794
.50420593285819501950691390363138822769824121605081
.50393792565765363614560292203083580679623745285248
.50418745205910680828751888325327977196544481086122
.50395455868788854408128096229982985535504763533760
.50417242842366248776922697969942125193274731912905
.5039681740651818913536326504305105042758889300013
.50416005063658776537609962149604457181488288149061
.50397945983680734123690828544689569587775925208450
.50414973209808860805145087633837995827347303966688
.50398891859672907006065044011389242700973569797847
.50414104018062337466192968552086253440268370559095
.50399692438137965172401741123976829316776060465686
.50413365016496563414127004786819876574594772329681
.50400376019765502238239815574394378832121083711869
.50412731448592395181845067165330900221956124392081
.50400964336647942042192079727143055930613710194950
.50412184173763885221264952146416187852553845475286
.50401474300155090280796398784081795884445101238190
.50411708205324566144624082139479387165687550497270
.50401919229356672259722552031313561085980966653469
.50411291673948173452261676310781406946844833062994
.50402309729200487150543612638416498191185256407210
.50410925080779871884361361124087708044268900832246
.50402654328083951964968376115722000056681627111021
.50410600751263482363011353554681778659406547103977
.50402959947307463658238237686350808928492821215036
.50410312430329257028314469689820280345347308554551
.50403232251225071544165827381464395851304741984342
.50410054978626221420172621828002209303851985172831
.50403475911522892395709301524259523777033257034783
.50409824141971242760365710823320752377886844700915
.50403694808875206439169868343283343263286262488040
.50409616374520644583578591900923698511985728856880
.50403892188379179524402144695572213854989349797988
.50409428701820517354437907966811713355707437396137
.50404070780490585700479364610026272498192080450421
.50409258613779505313926661971811053458625075825731
.50404232895941506797987651321709309748436758094682
.50409103980319299531476564671232244590787993153869
.50404380500845668128390883298530599799224705188412
.50408962984373229561409020622242023803632036323577
.50404515276580304646477358881606239518963890186843
.50408834068272090844912030341013071261664595952207
.50404638667871491179516561203758401370634912086214

Aitken extrapolation of the partial sums:

- 1 extrapolations. Estimated error = 4.6020M-9
- 2 extrapolations. Estimated error = 1.0704M-12
- 3 extrapolations. Estimated error = 3.9603M-16

4 extrapolations. Estimated error = 2.0709M-19
5 extrapolations. Estimated error = 1.4338M-22
6 extrapolations. Estimated error = 1.2602M-25
7 extrapolations. Estimated error = 1.3649M-28
8 extrapolations. Estimated error = 1.7803M-31
9 extrapolations. Estimated error = 2.7450M-34
10 extrapolations. Estimated error = 4.9229M-37
11 extrapolations. Estimated error = 1.0112M-39
12 extrapolations. Estimated error = 2.3374M-42
13 extrapolations. Estimated error = 5.8948M-45
14 extrapolations. Estimated error = 1.4235M-47
15 extrapolations. Estimated error = 3.2830M-50
16 extrapolations. Estimated error = 1.6830M-51
17 extrapolations. Estimated error = 3.5136M-52
18 extrapolations. Estimated error = 1.8222M-51

The last two estimates after 17 Aitken extrapolations =
.50406706190692837198985611774114822962498502821264
.50406706190692837198985611774114822962498502821264

Cohen's alternating series extrapolation method:

n = 69. Extrapolated value =
.50406706190692837198985611774114822962498502821264
n = 70. Extrapolated value =
.50406706190692837198985611774114822962498502821264

For this example problem, there is a closed-form answer: $\text{Sin}(1) - \text{Ci}(1) =$
.50406706190692837198985611774114822962498502821264