Output:

|  |  |
| --- | --- |
| Step Size = 0.1  tVal | xVal  -----------------------  0.0 | 1.0  0.1 | 1.40353353  0.2 | 2.01924394  0.30000000 | 2.49311061  0.4 | 2.20150117  0.5 | 1.55778532  0.6 | 1.09135802  0.7 | 0.82546596  0.79999999 | 0.68720859  0.89999999 | 0.62985145  0.99999999 | 0.63430815  1.09999999 | 0.70201964  1.2 | 0.85558877  1.3 | 1.14657552  1.40000000 | 1.64699732  1.50000000 | 2.28143570  1.60000000 | 2.45706622  1.70000000 | 1.91325810  1.80000000 | 1.32455997  1.90000000 | 0.95489645  2.00000000 | 0.75265427  The error at t=2 is: 0.0012589072054928208 | Step Size = 0.05  tVal | xVal  -----------------------  0.0 | 1.0  0.05 | 1.17431244  0.1 | 1.40379637  0.15000000 | 1.69196986  0.2 | 2.01971398  0.25 | 2.32237521  0.3 | 2.49084843  0.35 | 2.44156073  0.39999999 | 2.20064814  0.44999999 | 1.87555234  0.49999999 | 1.56018187  0.54999999 | 1.29695443  0.6 | 1.09247002  0.65 | 0.93901746  0.70000000 | 0.82610792  0.75000000 | 0.74462146  0.80000000 | 0.68770519  0.85000000 | 0.65060714  0.90000000 | 0.63029773  0.95000000 | 0.62515240  1.00000000 | 0.63476407  1.05000000 | 0.65989458  1.10000000 | 0.70256504  1.15000000 | 0.76628465  1.20000000 | 0.85639888  1.25000000 | 0.98044927  1.30000000 | 1.14815132  1.35000000 | 1.36983323  1.40000000 | 1.65056766  1.45000000 | 1.97554710  1.50000000 | 2.28717490  1.55000000 | 2.47989647  1.60000000 | 2.46073397  1.65000000 | 2.23985850  1.70000000 | 1.91954011  1.75000000 | 1.59940497  1.80000000 | 1.32838002  1.85000000 | 1.11640866  1.90000000 | 0.95680022  1.95000000 | 0.83908768  2.00000000 | 0.75387871  The error at t=2 is: 3.4467635108614836E-5 |

|  |  |
| --- | --- |
| Step Size = 0.025  tVal | xVal  -----------------------  0.0 | 1.0  0.025 | 1.08085288  0.05 | 1.17431825  0.07500000 | 1.28166196  0.1 | 1.40381364  0.125 | 1.54096909  0.15 | 1.69199778  0.175 | 1.85365662  0.19999999 | 2.01972332  0.22499999 | 2.18036521  0.24999999 | 2.32229846  0.27499999 | 2.43035700  0.3 | 2.49065634  0.325 | 2.49452039  0.35000000 | 2.44136955  0.37500000 | 2.33892488  0.40000000 | 2.20060398  0.42500000 | 2.04161579  0.45000000 | 1.87562092  0.47500000 | 1.71294434  0.50000000 | 1.56026182  0.52500000 | 1.42116271  0.55000000 | 1.29700898  0.57500000 | 1.18774222  0.60000000 | 1.09250340  0.62500000 | 1.01005438  0.65000000 | 0.93903959  0.67500000 | 0.87813505  0.70000000 | 0.82612495  0.72500000 | 0.78193419  0.75000000 | 0.74463625  0.77500000 | 0.71344805  0.80000000 | 0.68771893  0.82500000 | 0.66691774  0.85000000 | 0.65062035  0.87500000 | 0.63849850  0.90000000 | 0.63031069  0.92500000 | 0.62589521  0.95000000 | 0.62516535  0.97500000 | 0.62810681  1.00000000 | 0.63477728  1.02500000 | 0.64530815  1.05000000 | 0.65990844  1.07500000 | 0.67887086  1.1 | 0.70258016  1.125 | 0.73152341  1.15 | 0.76630213  1.17499999 | 0.80764518  1.19999999 | 0.85642089  1.22499999 | 0.91364520  1.24999999 | 0.98048008  1.27499999 | 1.05821262  1.29999999 | 1.14819886  1.32499999 | 1.25174772  1.34999999 | 1.36990968  1.37499999 | 1.50312456  1.39999999 | 1.65068343  1.42499999 | 1.80998893  1.44999999 | 1.97568899  1.47499999 | 2.13893825  1.49999999 | 2.28728344  1.52499999 | 2.40581035  1.54999999 | 2.47991621  1.57499999 | 2.49918144  1.59999999 | 2.46072864  1.62499999 | 2.37023043  1.64999999 | 2.23995558  1.67499999 | 2.08501363  1.69999999 | 1.91972005  1.72499999 | 1.75536758  1.74999999 | 1.59957010  1.77499999 | 1.45665648  1.79999999 | 1.32849541  1.82499999 | 1.21533656  1.84999999 | 1.11648470  1.87499999 | 1.03077115  1.89999999 | 0.95685313  1.92499999 | 0.89338847  1.94999999 | 0.83912804  1.97499999 | 0.79295789  1.99999999 | 0.75391217  The error at t=2 is: 1.0138758826938599E-6 | Step Size = 0.0125  tVal | xVal  -----------------------  0.0 | 1.0  0.0125 | 1.03893468  0.025 | 1.08085302  0.03750000 | 1.12592574  0.05 | 1.17431862  0.0625 | 1.22618606  0.075 | 1.28166265  0.0875 | 1.34085233  0.09999999 | 1.40381472  0.11249999 | 1.47054836  0.12499999 | 1.54097053  0.13749999 | 1.61489373  0.15 | 1.69199934  0.1625 | 1.77180927  0.17500000 | 1.85365774  0.18750000 | 1.93666584  0.20000000 | 2.01972301  0.21250000 | 2.10148046  0.22500000 | 2.18036222  0.23750000 | 2.25459940  0.25000000 | 2.32229168  0.26250000 | 2.38149702  0.27500000 | 2.43034611  0.28750000 | 2.46717222  0.30000000 | 2.49064237  0.31250000 | 2.49987200  0.32500000 | 2.49450567  0.33750000 | 2.47475056  0.35000000 | 2.44135688  0.36250000 | 2.39554863  0.37500000 | 2.33891637  0.38750000 | 2.27328864  0.40000000 | 2.20060019  0.41250000 | 2.12277226  0.42500000 | 2.04161583  0.43750000 | 1.95876248  0.45000000 | 1.87562326  0.46250000 | 1.79337196  0.47500000 | 1.71294756  0.48750000 | 1.63507017  0.50000000 | 1.56026498  0.51250000 | 1.48889017  0.52500000 | 1.42116536  0.53750000 | 1.35719867  0.55 | 1.29701104  0.5625 | 1.24055727  0.575 | 1.18774374  0.58749999 | 1.13844284  0.59999999 | 1.09250450  0.61249999 | 1.04976527  0.62499999 | 1.01005520  0.63749999 | 0.97320308  0.64999999 | 0.93904023  0.66249999 | 0.90740318  0.67499999 | 0.87813558  0.68749999 | 0.85108936  0.69999999 | 0.82612542  0.71249999 | 0.80311397  0.72499999 | 0.78193462  0.73749999 | 0.76247623  0.74999999 | 0.74463667  0.76249999 | 0.72832247  0.77499999 | 0.71344847  0.78749999 | 0.69993737  0.79999999 | 0.68771934  0.81249999 | 0.67673164  0.82499999 | 0.66691816  0.83749999 | 0.65822914  0.84999999 | 0.65062077  0.86249999 | 0.64405494  0.87499999 | 0.63849892  0.88749999 | 0.63392517  0.89999999 | 0.63031111  0.91249999 | 0.62763897  0.92499999 | 0.62589563  0.93749999 | 0.62507258  0.94999999 | 0.62516578  0.96249999 | 0.62617568  0.97499999 | 0.62810724  0.98749999 | 0.63096990  0.99999999 | 0.63477771  1.01249999 | 0.63954942  1.02499999 | 0.64530859  1.03749999 | 0.65208381  1.04999999 | 0.65990887  1.06249999 | 0.66882304  1.07499999 | 0.67887130  1.08749999 | 0.69010468  1.09999999 | 0.70258060  1.11249999 | 0.71636323  1.12499999 | 0.73152387  1.13749999 | 0.74814140  1.14999999 | 0.76630262  1.16249999 | 0.78610275  1.17499999 | 0.80764572  1.18749999 | 0.83104454  1.19999999 | 0.85642151  1.21249999 | 0.88390832  1.22499999 | 0.91364594  1.23749999 | 0.94578420  1.24999999 | 0.98048101  1.26249999 | 1.01790107  1.27499999 | 1.05821383  1.28749999 | 1.10159060  1.29999999 | 1.14820046  1.31249999 | 1.19820479  1.32499999 | 1.25174987  1.33749999 | 1.30895743  1.34999999 | 1.36991251  1.36249999 | 1.43464837  1.37499999 | 1.50312816  1.38749999 | 1.57522312  1.39999999 | 1.65068771  1.41249999 | 1.72913206  1.42499999 | 1.80999349  1.43749999 | 1.89250910  1.44999999 | 1.97569304  1.46249999 | 2.05832290  1.47499999 | 2.13894064  1.48749999 | 2.21587396  1.49999999 | 2.28728292  1.51249999 | 2.35123481  1.52499999 | 2.40580624  1.53749999 | 2.44920627  1.54999999 | 2.47990897  1.56249999 | 2.49677909  1.57499999 | 2.49917283  1.58749999 | 2.48699769  1.59999999 | 2.46072118  1.61249999 | 2.42132703  1.62499999 | 2.37022626  1.63749999 | 2.30913765  1.64999999 | 2.23995555  1.66249999 | 2.16462205  1.67499999 | 2.08501710  1.68749999 | 2.00287439  1.69999999 | 1.91972559  1.71249999 | 1.83687124  1.72499999 | 1.75537374  1.73749999 | 1.67606683  1.74999999 | 1.59957587  1.76249999 | 1.52634416  1.77499999 | 1.45666139  1.78749999 | 1.39069166  1.79999999 | 1.32849937  1.81249999 | 1.27007200  1.82499999 | 1.21533967  1.83749999 | 1.16419119  1.84999999 | 1.11648714  1.86249999 | 1.07207019  1.87499999 | 1.03077309  1.88749999 | 0.99242474  1.89999999 | 0.95685472  1.91249999 | 0.92389651  1.92499999 | 0.89338981  1.93749999 | 0.86518202  1.94999999 | 0.83912922  1.96249999 | 0.81509665  1.97499999 | 0.79295895  1.98749999 | 0.77260007  1.99999999 | 0.75391315  The error at t=2 is: 2.9389736422302803E-8 |

|  |  |
| --- | --- |
| Step Size = 0.00625  tVal | xVal  -----------------------  0.0 | 1.0  0.00625 | 1.01910511  0.0125 | 1.03893469  0.01875000 | 1.05951018  0.025 | 1.08085303  0.03125 | 1.10298455  0.0375 | 1.12592576  0.04375 | 1.14969718  0.04999999 | 1.17431864  0.05624999 | 1.19980906  0.06249999 | 1.22618609  0.06874999 | 1.25346589  0.075 | 1.28166270  0.08125 | 1.31078846  0.08750000 | 1.34085239  0.09375000 | 1.37186044  0.10000000 | 1.40381479  0.10625000 | 1.43671322  0.11250000 | 1.47054844  0.11875000 | 1.50530743  0.12500000 | 1.54097062  0.13125000 | 1.57751111  0.13750000 | 1.61489383  0.14375000 | 1.65307464  0.15000000 | 1.69199943  0.15625000 | 1.73160324  0.16250000 | 1.77180935  0.16875000 | 1.81252843  0.17500000 | 1.85365779  0.18125000 | 1.89508070  0.18750000 | 1.93666585  0.19375000 | 1.97826702  0.20000000 | 2.01972296  0.20625000 | 2.06085756  0.21250000 | 2.10148033  0.21875000 | 2.14138723  0.22500000 | 2.18036198  0.23125000 | 2.21817769  0.23750000 | 2.25459904  0.24375000 | 2.28938486  0.25000000 | 2.32229118  0.25625000 | 2.35307466  0.26250000 | 2.38149639  0.26875000 | 2.40732589  0.275 | 2.43034535  0.28125 | 2.45035382  0.2875 | 2.46717135  0.29374999 | 2.48064282  0.29999999 | 2.49064143  0.30624999 | 2.49707154  0.31249999 | 2.49987102  0.31874999 | 2.49901261  0.32499999 | 2.49450470  0.33124999 | 2.48639101  0.33749999 | 2.47474964  0.34374999 | 2.45969115  0.34999999 | 2.44135605  0.35624999 | 2.41991153  0.36249999 | 2.39554792  0.36874999 | 2.36847458  0.37499999 | 2.33891580  0.38124999 | 2.30710652  0.38749999 | 2.27328822  0.39374999 | 2.23770500  0.39999999 | 2.20059991  0.40624999 | 2.16221172  0.41249999 | 2.12277211  0.41874999 | 2.08250322  0.42499999 | 2.04161578  0.43124999 | 2.00030760  0.43749999 | 1.95876251  0.44374999 | 1.91714969  0.44999999 | 1.87562335  0.45624999 | 1.83432267  0.46249999 | 1.79337208  0.46874999 | 1.75288165  0.47499999 | 1.71294770  0.48124999 | 1.67365356  0.48749999 | 1.63507031  0.49374999 | 1.59725773  0.49999999 | 1.56026512  0.50624999 | 1.52413227  0.51249999 | 1.48889030  0.51874999 | 1.45456257  0.52499999 | 1.42116548  0.53124999 | 1.38870927  0.53749999 | 1.35719878  0.54374999 | 1.32663407  0.54999999 | 1.29701112  0.55624999 | 1.26832240  0.56249999 | 1.24055734  0.56874999 | 1.21370287  0.57499999 | 1.18774380  0.58124999 | 1.16266324  0.58749999 | 1.13844289  0.59374999 | 1.11506339  0.59999999 | 1.09250454  0.60624999 | 1.07074557  0.61249999 | 1.04976530  0.61874999 | 1.02954234  0.62499999 | 1.01005523  0.63124999 | 0.99128256  0.63749999 | 0.97320311  0.64374999 | 0.95579588  0.64999999 | 0.93904024  0.65624999 | 0.92291595  0.66249999 | 0.90740319  0.66874999 | 0.89248267  0.67499999 | 0.87813560  0.68124999 | 0.86434372  0.68749999 | 0.85108937  0.69374999 | 0.83835545  0.69999999 | 0.82612543  0.70624999 | 0.81438339  0.71249999 | 0.80311398  0.71874999 | 0.79230245  0.72499999 | 0.78193463  0.73124999 | 0.77199691  0.73749999 | 0.76247624  0.74374999 | 0.75336015  0.74999999 | 0.74463668  0.75624999 | 0.73629442  0.76249999 | 0.72832248  0.76874999 | 0.72071047  0.77499999 | 0.71344848  0.78124999 | 0.70652710  0.78749999 | 0.69993738  0.79374999 | 0.69367082  0.79999999 | 0.68771936  0.80624999 | 0.68207537  0.81249999 | 0.67673165  0.81874999 | 0.67168139  0.82499999 | 0.66691817  0.83124999 | 0.66243598  0.83749999 | 0.65822915  0.84374999 | 0.65429240  0.84999999 | 0.65062078  0.85624999 | 0.64720972  0.86249999 | 0.64405495  0.86874999 | 0.64115256  0.87499999 | 0.63849893  0.88124999 | 0.63609080  0.88749999 | 0.63392518  0.89374999 | 0.63199942  0.89999999 | 0.63031113  0.90624999 | 0.62885824  0.91249999 | 0.62763898  0.91874999 | 0.62665185  0.92499999 | 0.62589565  0.93124999 | 0.62536944  0.93749999 | 0.62507259  0.94374999 | 0.62500474  0.94999999 | 0.62516579  0.95624999 | 0.62555595  0.96249999 | 0.62617570  0.96874999 | 0.62702579  0.97499999 | 0.62810726  0.98124999 | 0.62942143  0.98749999 | 0.63096992  0.99374999 | 0.63275462  0.99999999 | 0.63477773  1.00624999 | 0.63704173  1.01249999 | 0.63954943  1.01874999 | 0.64230392  1.02499999 | 0.64530860  1.03124999 | 0.64856722  1.03749999 | 0.65208382  1.04374999 | 0.65586280  1.04999999 | 0.65990889  1.05624999 | 0.66422716  1.06249999 | 0.66882306  1.06874999 | 0.67370238  1.07499999 | 0.67887132  1.08124999 | 0.68433643  1.08749999 | 0.69010470  1.09374999 | 0.69618349  1.09999999 | 0.70258062  1.10624999 | 0.70930431  1.11249999 | 0.71636324  1.11874999 | 0.72376657  1.12499999 | 0.73152389  1.13124999 | 0.73964530  1.13749999 | 0.74814141  1.14374999 | 0.75702331  1.14999999 | 0.76630264  1.15624999 | 0.77599155  1.16249999 | 0.78610276  1.16874999 | 0.79664955  1.17499999 | 0.80764573  1.18125 | 0.81910574  1.1875 | 0.83104455  1.19375 | 0.84347776  1.20000000 | 0.85642153  1.20625000 | 0.86989261  1.21250000 | 0.88390834  1.21875000 | 0.89848664  1.22500000 | 0.91364596  1.23125000 | 0.92940532  1.23750000 | 0.94578422  1.24375000 | 0.96280266  1.25000000 | 0.98048104  1.25625000 | 0.99884016  1.26250000 | 1.01790110  1.26875000 | 1.03768520  1.27500000 | 1.05821387  1.28125000 | 1.07950858  1.28750000 | 1.10159065  1.29375000 | 1.12448111  1.30000000 | 1.14820052  1.30625000 | 1.17276879  1.31250000 | 1.19820486  1.31875000 | 1.22452650  1.32500000 | 1.25174996  1.33125000 | 1.27988960  1.33750000 | 1.30895753  1.34375000 | 1.33896315  1.35000000 | 1.36991263  1.35625000 | 1.40180839  1.36250000 | 1.43464851  1.36875000 | 1.46842603  1.37500000 | 1.50312831  1.38125000 | 1.53873620  1.38750000 | 1.57522329  1.39375000 | 1.61255503  1.40000000 | 1.65068788  1.40625000 | 1.68956837  1.41250000 | 1.72913224  1.41875000 | 1.76930350  1.42500000 | 1.80999366  1.43125000 | 1.85110086  1.43750000 | 1.89250925  1.44375000 | 1.93408844  1.45000000 | 1.97569315  1.45625000 | 2.01716305  1.46250000 | 2.05832294  1.46875000 | 2.09898319  1.47500000 | 2.13894060  1.48125000 | 2.17797956  1.48750000 | 2.21587381  1.49375000 | 2.25238847  1.50000000 | 2.28728266  1.50625000 | 2.32031247  1.51250000 | 2.35123442  1.51875000 | 2.37980921  1.52500000 | 2.40580573  1.53125000 | 2.42900524  1.53750000 | 2.44920564  1.54375000 | 2.46622557  1.55000000 | 2.47990825  1.55625000 | 2.49012504  1.56250000 | 2.49677831  1.56875000 | 2.49980379  1.57500000 | 2.49917204  1.58125000 | 2.49488923  1.58750000 | 2.48699692  1.59375000 | 2.47557113  1.60000000 | 2.46072048  1.60625000 | 2.44258369  1.61250000 | 2.42132644  1.61875000 | 2.39713769  1.62500000 | 2.37022579  1.63125000 | 2.34081419  1.63750000 | 2.30913732  1.64375000 | 2.27543636  1.65000000 | 2.23995535  1.65625000 | 2.20293751  1.66250000 | 2.16462197  1.66875000 | 2.12524091  1.67500000 | 2.08501713  1.68125000 | 2.04416212  1.68750000 | 2.00287451  1.69375000 | 1.96133902  1.70000000 | 1.91972576  1.70625000 | 1.87818987  1.71250000 | 1.83687145  1.71875000 | 1.79589583  1.72500000 | 1.75537397  1.73125000 | 1.71540301  1.73750000 | 1.67606706  1.74375000 | 1.63743794  1.75000000 | 1.59957609  1.75625000 | 1.56253145  1.76250000 | 1.52634437  1.76875000 | 1.49104647  1.77500000 | 1.45666158  1.78125000 | 1.42320650  1.78750000 | 1.39069183  1.79375000 | 1.35912272  1.80000000 | 1.32849952  1.80625000 | 1.29881844  1.81250000 | 1.27007213  1.81875000 | 1.24225023  1.82500000 | 1.21533979  1.83125000 | 1.18932574  1.83750000 | 1.16419129  1.84375000 | 1.13991822  1.85000000 | 1.11648723  1.85625000 | 1.09387816  1.86250000 | 1.07207026  1.86875000 | 1.05104239  1.87500000 | 1.03077315  1.88125000 | 1.01124109  1.88750000 | 0.99242480  1.89375000 | 0.97430302  1.90000000 | 0.95685477  1.90625000 | 0.94005937  1.91250000 | 0.92389656  1.91875000 | 0.90834650  1.92500000 | 0.89338985  1.93125000 | 0.87900780  1.93750000 | 0.86518206  1.94375000 | 0.85189492  1.95000000 | 0.83912925  1.95625000 | 0.82686849  1.96250000 | 0.81509668  1.96875000 | 0.80379844  1.97500000 | 0.79295898  1.98125000 | 0.78256408  1.98750000 | 0.77260010  1.99375000 | 0.76305398  2.00000000 | 0.75391318  The error at t=2 is: 7.889954245499098E-10 | Step Size = 0.003125  tVal | xVal  -----------------------  0.0 | 1.0  0.003125 | 1.00946333  0.00625 | 1.01910511  0.00937500 | 1.02892800  0.0125 | 1.03893469  0.015625 | 1.04912785  0.01875 | 1.05951018  0.021875 | 1.07008435  0.02499999 | 1.08085303  0.02812499 | 1.09181889  0.03124999 | 1.10298456  0.03437499 | 1.11435265  0.0375 | 1.12592576  0.040625 | 1.13770643  0.04375000 | 1.14969718  0.04687500 | 1.16190045  0.05000000 | 1.17431864  0.05312500 | 1.18695410  0.05625000 | 1.19980906  0.05937500 | 1.21288570  0.06250000 | 1.22618609  0.06562500 | 1.23971221  0.06875000 | 1.25346589  0.07187500 | 1.26744886  0.07500000 | 1.28166270  0.07812500 | 1.29610882  0.08125000 | 1.31078846  0.08437500 | 1.32570270  0.08750000 | 1.34085239  0.09062500 | 1.35623817  0.09375000 | 1.37186044  0.09687500 | 1.38771936  0.10000000 | 1.40381479  0.10312500 | 1.42014633  0.10625000 | 1.43671322  0.10937500 | 1.45351441  0.11250000 | 1.47054845  0.11562500 | 1.48781353  0.11875000 | 1.50530743  0.12187500 | 1.52302750  0.12500000 | 1.54097062  0.12812500 | 1.55913319  0.13125000 | 1.57751111  0.13437500 | 1.59609973  0.1375 | 1.61489383  0.140625 | 1.63388761  0.14375 | 1.65307464  0.14687499 | 1.67244783  0.14999999 | 1.69199943  0.15312499 | 1.71172097  0.15624999 | 1.73160325  0.15937499 | 1.75163629  0.16249999 | 1.77180935  0.16562499 | 1.79211087  0.16874999 | 1.81252843  0.17187499 | 1.83304879  0.17499999 | 1.85365779  0.17812499 | 1.87434042  0.18124999 | 1.89508070  0.18437499 | 1.91586178  0.18749999 | 1.93666585  0.19062499 | 1.95747416  0.19374999 | 1.97826702  0.19687499 | 1.99902380  0.19999999 | 2.01972296  0.20312499 | 2.04034200  0.20624999 | 2.06085755  0.20937499 | 2.08124536  0.21249999 | 2.10148032  0.21562499 | 2.12153650  0.21874999 | 2.14138722  0.22187499 | 2.16100507  0.22499999 | 2.18036196  0.22812499 | 2.19942924  0.23124999 | 2.21817767  0.23437499 | 2.23657761  0.23749999 | 2.25459901  0.24062499 | 2.27221158  0.24374999 | 2.28938483  0.24687499 | 2.30608819  0.24999999 | 2.32229115  0.25312499 | 2.33796332  0.25624999 | 2.35307463  0.25937499 | 2.36759536  0.26249999 | 2.38149635  0.26562499 | 2.39474908  0.26874999 | 2.40732584  0.27187499 | 2.41919983  0.27499999 | 2.43034529  0.27812499 | 2.44073769  0.28124999 | 2.45035376  0.28437499 | 2.45917171  0.28749999 | 2.46717129  0.29062499 | 2.47433391  0.29374999 | 2.48064276  0.29687499 | 2.48608291  0.29999999 | 2.49064136  0.30312499 | 2.49430717  0.30624999 | 2.49707148  0.30937499 | 2.49892758  0.31249999 | 2.49987095  0.31562499 | 2.49989930  0.31874999 | 2.49901255  0.32187499 | 2.49721287  0.32499999 | 2.49450463  0.32812499 | 2.49089442  0.33124999 | 2.48639095  0.33437499 | 2.48100505  0.33749999 | 2.47474958  0.34062499 | 2.46763936  0.34374999 | 2.45969110  0.34687499 | 2.45092326  0.34999999 | 2.44135599  0.35312499 | 2.43101101  0.35624999 | 2.41991148  0.35937499 | 2.40808188  0.36249999 | 2.39554787  0.36562499 | 2.38233621  0.36874999 | 2.36847454  0.37187499 | 2.35399135  0.37499999 | 2.33891576  0.37812499 | 2.32327745  0.38124999 | 2.30710649  0.38437499 | 2.29043323  0.38749999 | 2.27328820  0.39062499 | 2.25570195  0.39374999 | 2.23770498  0.39687499 | 2.21932761  0.39999999 | 2.20059989  0.40312499 | 2.18155151  0.40624999 | 2.16221171  0.40937499 | 2.14260920  0.41249999 | 2.12277210  0.41562499 | 2.10272786  0.41874999 | 2.08250321  0.42187499 | 2.06212413  0.42499999 | 2.04161578  0.42812499 | 2.02100245  0.43124999 | 2.00030760  0.43437499 | 1.97955375  0.43749999 | 1.95876251  0.44062499 | 1.93795458  0.44374999 | 1.91714970  0.44687499 | 1.89636666  0.44999999 | 1.87562335  0.45312499 | 1.85493669  0.45624999 | 1.83432268  0.45937499 | 1.81379641  0.46249999 | 1.79337208  0.46562499 | 1.77306301  0.46874999 | 1.75288165  0.47187499 | 1.73283962  0.47499999 | 1.71294771  0.47812499 | 1.69321594  0.48124999 | 1.67365356  0.48437499 | 1.65426909  0.48749999 | 1.63507032  0.49062499 | 1.61606438  0.49374999 | 1.59725773  0.49687499 | 1.57865623  0.49999999 | 1.56026513  0.50312499 | 1.54208909  0.50624999 | 1.52413227  0.50937499 | 1.50639830  0.51249999 | 1.48889030  0.51562499 | 1.47161098  0.51874999 | 1.45456257  0.52187499 | 1.43774692  0.52499999 | 1.42116548  0.52812499 | 1.40481935  0.53124999 | 1.38870928  0.53437499 | 1.37283571  0.53749999 | 1.35719878  0.54062499 | 1.34179836  0.54374999 | 1.32663407  0.54687499 | 1.31170527  0.54999999 | 1.29701113  0.55312499 | 1.28255058  0.55624999 | 1.26832240  0.55937499 | 1.25432518  0.56249999 | 1.24055734  0.56562499 | 1.22701719  0.56874999 | 1.21370287  0.57187499 | 1.20061243  0.57499999 | 1.18774380  0.57812499 | 1.17509482  0.58124999 | 1.16266324  0.58437499 | 1.15044673  0.58749999 | 1.13844289  0.590625 | 1.12664928  0.59375 | 1.11506339  0.596875 | 1.10368267  0.60000000 | 1.09250455  0.60312500 | 1.08152639  0.60625000 | 1.07074558  0.60937500 | 1.06015944  0.61250000 | 1.04976531  0.61562500 | 1.03956050  0.61875000 | 1.02954234  0.62187500 | 1.01970815  0.62500000 | 1.01005523  0.62812500 | 1.00058092  0.63125000 | 0.99128256  0.63437500 | 0.98215750  0.63750000 | 0.97320311  0.64062500 | 0.96441676  0.64375000 | 0.95579588  0.64687500 | 0.94733789  0.65000000 | 0.93904024  0.65312500 | 0.93090043  0.65625000 | 0.92291595  0.65937500 | 0.91508435  0.66250000 | 0.90740319  0.66562500 | 0.89987009  0.66875000 | 0.89248267  0.67187500 | 0.88523861  0.67500000 | 0.87813560  0.67812500 | 0.87117138  0.68125000 | 0.86434372  0.68437500 | 0.85765044  0.68750000 | 0.85108937  0.69062500 | 0.84465840  0.69375000 | 0.83835545  0.69687500 | 0.83217846  0.70000000 | 0.82612543  0.70312500 | 0.82019438  0.70625000 | 0.81438339  0.70937500 | 0.80869054  0.71250000 | 0.80311398  0.71562500 | 0.79765188  0.71875000 | 0.79230245  0.72187500 | 0.78706394  0.72500000 | 0.78193463  0.72812500 | 0.77691284  0.73125000 | 0.77199691  0.73437500 | 0.76718524  0.73750000 | 0.76247624  0.74062500 | 0.75786838  0.74375000 | 0.75336015  0.74687500 | 0.74895006  0.75000000 | 0.74463668  0.75312500 | 0.74041859  0.75625000 | 0.73629442  0.75937500 | 0.73226282  0.76250000 | 0.72832248  0.76562500 | 0.72447211  0.76875000 | 0.72071047  0.77187500 | 0.71703632  0.77500000 | 0.71344848  0.77812500 | 0.70994578  0.78125000 | 0.70652710  0.78437500 | 0.70319132  0.78750000 | 0.69993738  0.79062500 | 0.69676422  0.79375000 | 0.69367082  0.79687500 | 0.69065619  0.80000000 | 0.68771936  0.80312500 | 0.68485939  0.80625000 | 0.68207537  0.80937500 | 0.67936641  0.81250000 | 0.67673165  0.81562500 | 0.67417025  0.81875000 | 0.67168139  0.82187500 | 0.66926429  0.82500000 | 0.66691817  0.82812500 | 0.66464231  0.83125000 | 0.66243598  0.83437500 | 0.66029848  0.83750000 | 0.65822915  0.84062500 | 0.65622733  0.84375000 | 0.65429240  0.84687500 | 0.65242374  0.85000000 | 0.65062078  0.85312500 | 0.64888296  0.85625000 | 0.64720972  0.85937500 | 0.64560055  0.86250000 | 0.64405495  0.86562500 | 0.64257244  0.86875000 | 0.64115256  0.87187500 | 0.63979486  0.87500000 | 0.63849893  0.87812500 | 0.63726437  0.88125000 | 0.63609080  0.88437500 | 0.63497785  0.88750000 | 0.63392518  0.89062500 | 0.63293247  0.89375000 | 0.63199942  0.89687500 | 0.63112572  0.90000000 | 0.63031113  0.90312500 | 0.62955538  0.90625000 | 0.62885824  0.90937500 | 0.62821951  0.91250000 | 0.62763898  0.91562500 | 0.62711648  0.91875000 | 0.62665185  0.92187500 | 0.62624495  0.92500000 | 0.62589565  0.92812500 | 0.62560384  0.93125000 | 0.62536944  0.93437500 | 0.62519238  0.93750000 | 0.62507259  0.94062500 | 0.62501005  0.94375000 | 0.62500474  0.94687500 | 0.62505664  0.95000000 | 0.62516579  0.95312500 | 0.62533221  0.95625000 | 0.62555595  0.95937500 | 0.62583709  0.96250000 | 0.62617570  0.96562500 | 0.62657189  0.96875000 | 0.62702579  0.97187500 | 0.62753752  0.97500000 | 0.62810726  0.97812500 | 0.62873516  0.98125000 | 0.62942143  0.98437500 | 0.63016627  0.98750000 | 0.63096992  0.99062500 | 0.63183261  0.99375000 | 0.63275462  0.99687500 | 0.63373622  1.00000000 | 0.63477773  1.00312500 | 0.63587945  1.00625000 | 0.63704174  1.00937500 | 0.63826494  1.01250000 | 0.63954943  1.01562500 | 0.64089562  1.01875000 | 0.64230392  1.02187500 | 0.64377476  1.02500000 | 0.64530860  1.02812500 | 0.64690592  1.03125000 | 0.64856722  1.03437500 | 0.65029301  1.03750000 | 0.65208382  1.04062500 | 0.65394023  1.04375000 | 0.65586280  1.04687500 | 0.65785215  1.05000000 | 0.65990889  1.05312500 | 0.66203367  1.05625000 | 0.66422716  1.05937500 | 0.66649005  1.06250000 | 0.66882306  1.06562500 | 0.67122691  1.06875000 | 0.67370238  1.07187500 | 0.67625025  1.07500000 | 0.67887132  1.07812500 | 0.68156643  1.08125000 | 0.68433643  1.08437500 | 0.68718222  1.08750000 | 0.69010470  1.09062500 | 0.69310480  1.09375000 | 0.69618349  1.09687500 | 0.69934176  1.10000000 | 0.70258062  1.10312500 | 0.70590111  1.10625000 | 0.70930431  1.10937500 | 0.71279131  1.11250000 | 0.71636324  1.11562500 | 0.72002127  1.11875000 | 0.72376657  1.12187500 | 0.72760036  1.12500000 | 0.73152389  1.12812500 | 0.73553843  1.13125000 | 0.73964530  1.13437500 | 0.74384584  1.13750000 | 0.74814141  1.14062500 | 0.75253342  1.14375000 | 0.75702331  1.14687500 | 0.76161255  1.15000000 | 0.76630264  1.15312500 | 0.77109511  1.15625000 | 0.77599155  1.15937500 | 0.78099355  1.16250000 | 0.78610276  1.16562500 | 0.79132086  1.16875000 | 0.79664955  1.17187500 | 0.80209058  1.17500000 | 0.80764573  1.17812500 | 0.81331683  1.18125000 | 0.81910574  1.18437500 | 0.82501433  1.18750000 | 0.83104455  1.19062500 | 0.83719836  1.19375000 | 0.84347776  1.19687500 | 0.84988479  1.20000000 | 0.85642153  1.20312500 | 0.86309008  1.20625000 | 0.86989261  1.20937500 | 0.87683129  1.21250000 | 0.88390834  1.21562500 | 0.89112603  1.21875000 | 0.89848664  1.22187500 | 0.90599250  1.22500000 | 0.91364596  1.22812500 | 0.92144943  1.23125000 | 0.92940532  1.23437500 | 0.93751609  1.23750000 | 0.94578422  1.24062500 | 0.95421223  1.24375000 | 0.96280266  1.24687500 | 0.97155806  1.25000000 | 0.98048104  1.25312500 | 0.98957419  1.25625000 | 0.99884016  1.25937500 | 1.00828158  1.26250000 | 1.01790111  1.26562500 | 1.02770142  1.26875000 | 1.03768520  1.27187500 | 1.04785512  1.27500000 | 1.05821387  1.27812500 | 1.06876414  1.28125000 | 1.07950858  1.28437500 | 1.09044987  1.28750000 | 1.10159065  1.29062500 | 1.11293353  1.29375000 | 1.12448111  1.29687500 | 1.13623593  1.30000000 | 1.14820053  1.30312500 | 1.16037734  1.30625000 | 1.17276879  1.30937500 | 1.18537721  1.31250000 | 1.19820486  1.31562500 | 1.21125393  1.31875000 | 1.22452650  1.32187500 | 1.23802456  1.32500000 | 1.25174996  1.32812500 | 1.26570444  1.33125000 | 1.27988960  1.33437500 | 1.29430688  1.33750000 | 1.30895754  1.34062500 | 1.32384267  1.34375000 | 1.33896315  1.34687500 | 1.35431967  1.35000000 | 1.36991263  1.35312500 | 1.38574224  1.35625000 | 1.40180840  1.35937500 | 1.41811072  1.36250000 | 1.43464851  1.36562500 | 1.45142075  1.36875000 | 1.46842604  1.37187500 | 1.48566262  1.37500000 | 1.50312832  1.37812500 | 1.52082053  1.38125000 | 1.53873621  1.38437500 | 1.55687181  1.38750000 | 1.57522330  1.39062500 | 1.59378609  1.39375000 | 1.61255504  1.39687500 | 1.63152443  1.40000000 | 1.65068789  1.40312500 | 1.67003843  1.40625000 | 1.68956838  1.40937500 | 1.70926935  1.41250000 | 1.72913224  1.41562500 | 1.74914718  1.41875000 | 1.76930351  1.42187500 | 1.78958977  1.42500000 | 1.80999366  1.42812500 | 1.83050204  1.43125000 | 1.85110086  1.43437500 | 1.87177521  1.43750000 | 1.89250925  1.44062500 | 1.91328623  1.44375000 | 1.93408845  1.44687500 | 1.95489728  1.45000000 | 1.97569315  1.45312500 | 1.99645556  1.45625000 | 2.01716305  1.45937500 | 2.03779326  1.46250000 | 2.05832294  1.46562500 | 2.07872791  1.46875000 | 2.09898319  1.47187500 | 2.11906295  1.47500000 | 2.13894059  1.47812500 | 2.15858879  1.48125000 | 2.17797955  1.48437500 | 2.19708427  1.48750000 | 2.21587380  1.49062500 | 2.23431852  1.49375000 | 2.25238845  1.49687500 | 2.27005331  1.50000000 | 2.28728263  1.50312500 | 2.30404585  1.50625000 | 2.32031244  1.50937500 | 2.33605200  1.51250000 | 2.35123439  1.51562500 | 2.36582986  1.51875000 | 2.37980918  1.52187500 | 2.39314373  1.52500000 | 2.40580569  1.52812500 | 2.41776814  1.53125000 | 2.42900519  1.53437500 | 2.43949215  1.53750000 | 2.44920560  1.54062500 | 2.45812353  1.54375000 | 2.46622552  1.54687500 | 2.47349275  1.55000000 | 2.47990820  1.55312500 | 2.48545669  1.55625000 | 2.49012499  1.55937500 | 2.49390188  1.56250000 | 2.49677826  1.56562500 | 2.49874714  1.56875000 | 2.49980373  1.57187500 | 2.49994546  1.57500000 | 2.49917198  1.57812500 | 2.49748518  1.58125000 | 2.49488917  1.58437500 | 2.49139024  1.58750000 | 2.48699687  1.59062500 | 2.48171961  1.59375000 | 2.47557108  1.59687500 | 2.46856586  1.60000000 | 2.46072043  1.60312500 | 2.45205304  1.60625000 | 2.44258364  1.60937500 | 2.43233377  1.61250000 | 2.42132639  1.61562500 | 2.40958584  1.61875000 | 2.39713765  1.62187500 | 2.38400844  1.62500000 | 2.37022575  1.62812500 | 2.35581797  1.63125000 | 2.34081416  1.63437500 | 2.32524392  1.63750000 | 2.30913729  1.64062500 | 2.29252459  1.64375000 | 2.27543633  1.64687500 | 2.25790308  1.65000000 | 2.23995533  1.65312500 | 2.22162344  1.65625000 | 2.20293749  1.65937500 | 2.18392724  1.66250000 | 2.16462196  1.66562500 | 2.14505045  1.66875000 | 2.12524090  1.67187500 | 2.10522085  1.67500000 | 2.08501713  1.67812500 | 2.06465580  1.68125000 | 2.04416212  1.68437500 | 2.02356050  1.68750000 | 2.00287451  1.69062500 | 1.98212677  1.69375000 | 1.96133903  1.69687500 | 1.94053207  1.70000000 | 1.91972577  1.70312500 | 1.89893904  1.70625000 | 1.87818987  1.70937500 | 1.85749530  1.71250000 | 1.83687146  1.71562500 | 1.81633353  1.71875000 | 1.79589584  1.72187500 | 1.77557180  1.72500000 | 1.75537398  1.72812500 | 1.73531408  1.73125000 | 1.71540302  1.73437500 | 1.69565090  1.73750000 | 1.67606707  1.74062500 | 1.65666012  1.74375000 | 1.63743795  1.74687500 | 1.61840776  1.75000000 | 1.59957610  1.75312500 | 1.58094889  1.75625000 | 1.56253146  1.75937500 | 1.54432855  1.76250000 | 1.52634438  1.76562500 | 1.50858262  1.76875000 | 1.49104648  1.77187500 | 1.47373870  1.77500000 | 1.45666159  1.77812500 | 1.43981702  1.78125000 | 1.42320651  1.78437500 | 1.40683118  1.78750000 | 1.39069184  1.79062500 | 1.37478896  1.79375000 | 1.35912273  1.79687500 | 1.34369303  1.80000000 | 1.32849952  1.80312500 | 1.31354160  1.80625000 | 1.29881844  1.80937500 | 1.28432903  1.81250000 | 1.27007214  1.81562500 | 1.25604639  1.81875000 | 1.24225023  1.82187500 | 1.22868198  1.82500000 | 1.21533979  1.82812500 | 1.20222173  1.83125000 | 1.18932574  1.83437500 | 1.17664968  1.83750000 | 1.16419129  1.84062500 | 1.15194827  1.84375000 | 1.13991822  1.84687500 | 1.12809871  1.85000000 | 1.11648723  1.85312500 | 1.10508124  1.85625000 | 1.09387816  1.85937500 | 1.08287538  1.86250000 | 1.07207027  1.86562500 | 1.06146016  1.86875000 | 1.05104239  1.87187500 | 1.04081428  1.87500000 | 1.03077315  1.87812500 | 1.02091632  1.88125000 | 1.01124109  1.88437500 | 1.00174481  1.88750000 | 0.99242480  1.89062500 | 0.98327842  1.89375000 | 0.97430302  1.89687500 | 0.96549601  1.90000000 | 0.95685477  1.90312500 | 0.94837674  1.90625000 | 0.94005937  1.90937500 | 0.93190014  1.91250000 | 0.92389656  1.91562500 | 0.91604615  1.91875000 | 0.90834650  1.92187500 | 0.90079519  1.92500000 | 0.89338985  1.92812500 | 0.88612815  1.93125000 | 0.87900780  1.93437500 | 0.87202651  1.93750000 | 0.86518206  1.94062500 | 0.85847225  1.94375000 | 0.85189492  1.94687500 | 0.84544795  1.95000000 | 0.83912925  1.95312500 | 0.83293677  1.95625000 | 0.82686850  1.95937500 | 0.82092245  1.96250000 | 0.81509668  1.96562500 | 0.80938931  1.96875000 | 0.80379844  1.97187500 | 0.79832227  1.97500000 | 0.79295898  1.97812500 | 0.78770682  1.98125000 | 0.78256408  1.98437500 | 0.77752906  1.98750000 | 0.77260010  1.99062500 | 0.76777561  1.99375000 | 0.76305398  1.99687500 | 0.75843368  2.00000000 | 0.75391318  The error at t=2 is: 1.672362248683612E-11 |

|  |
| --- |
| Step Size = 0.0015625  tVal | xVal  -----------------------  0.0 | 1.0  0.0015625 | 1.00470952  0.003125 | 1.00946333  0.00468750 | 1.01426175  0.00625 | 1.01910511  0.0078125 | 1.02399375  0.009375 | 1.02892800  0.0109375 | 1.03390820  0.01249999 | 1.03893469  0.01406249 | 1.04400779  0.01562499 | 1.04912785  0.01718749 | 1.05429520  0.01875 | 1.05951018  0.0203125 | 1.06477312  0.02187500 | 1.07008435  0.02343750 | 1.07544421  0.02500000 | 1.08085303  0.02656250 | 1.08631115  0.02812500 | 1.09181889  0.02968750 | 1.09737658  0.03125000 | 1.10298456  0.03281250 | 1.10864314  0.03437500 | 1.11435265  0.03593750 | 1.12011342  0.03750000 | 1.12592576  0.03906250 | 1.13178999  0.04062500 | 1.13770643  0.04218750 | 1.14367539  0.04375000 | 1.14969718  0.04531250 | 1.15577210  0.04687500 | 1.16190045  0.04843750 | 1.16808253  0.05000000 | 1.17431865  0.05156250 | 1.18060907  0.05312500 | 1.18695410  0.05468750 | 1.19335400  0.05625000 | 1.19980906  0.05781250 | 1.20631954  0.05937500 | 1.21288570  0.06093750 | 1.21950780  0.06250000 | 1.22618609  0.06406250 | 1.23292082  0.06562500 | 1.23971221  0.06718750 | 1.24656049  0.06875 | 1.25346589  0.0703125 | 1.26042862  0.071875 | 1.26744886  0.07343749 | 1.27452683  0.07499999 | 1.28166270  0.07656249 | 1.28885664  0.07812499 | 1.29610882  0.07968749 | 1.30341938  0.08124999 | 1.31078846  0.08281249 | 1.31821620  0.08437499 | 1.32570270  0.08593749 | 1.33324807  0.08749999 | 1.34085239  0.08906249 | 1.34851574  0.09062499 | 1.35623817  0.09218749 | 1.36401973  0.09374999 | 1.37186044  0.09531249 | 1.37976032  0.09687499 | 1.38771936  0.09843749 | 1.39573753  0.09999999 | 1.40381479  0.10156249 | 1.41195109  0.10312499 | 1.42014633  0.10468749 | 1.42840041  0.10624999 | 1.43671322  0.10781249 | 1.44508461  0.10937499 | 1.45351441  0.11093749 | 1.46200242  0.11249999 | 1.47054845  0.11406249 | 1.47915224  0.11562499 | 1.48781353  0.11718749 | 1.49653204  0.11874999 | 1.50530744  0.12031249 | 1.51413938  0.12187499 | 1.52302750  0.12343749 | 1.53197139  0.12499999 | 1.54097062  0.12656249 | 1.55002472  0.12812499 | 1.55913319  0.12968749 | 1.56829551  0.13124999 | 1.57751111  0.13281249 | 1.58677940  0.13437499 | 1.59609973  0.13593749 | 1.60547144  0.13749999 | 1.61489383  0.13906249 | 1.62436615  0.14062499 | 1.63388761  0.14218749 | 1.64345740  0.14374999 | 1.65307464  0.14531249 | 1.66273844  0.14687499 | 1.67244784  0.14843749 | 1.68220185  0.14999999 | 1.69199944  0.15156249 | 1.70183952  0.15312499 | 1.71172097  0.15468749 | 1.72164262  0.15624999 | 1.73160325  0.15781249 | 1.74160158  0.15937499 | 1.75163629  0.16093749 | 1.76170602  0.16249999 | 1.77180935  0.16406249 | 1.78194481  0.16562499 | 1.79211087  0.16718749 | 1.80230595  0.16874999 | 1.81252843  0.17031249 | 1.82277662  0.17187499 | 1.83304879  0.17343749 | 1.84334313  0.17499999 | 1.85365779  0.17656249 | 1.86399088  0.17812499 | 1.87434042  0.17968749 | 1.88470438  0.18124999 | 1.89508070  0.18281249 | 1.90546723  0.18437499 | 1.91586178  0.18593749 | 1.92626209  0.18749999 | 1.93666585  0.18906249 | 1.94707068  0.19062499 | 1.95747416  0.19218749 | 1.96787379  0.19374999 | 1.97826702  0.19531249 | 1.98865125  0.19687499 | 1.99902380  0.19843749 | 2.00938197  0.19999999 | 2.01972296  0.20156249 | 2.03004393  0.20312499 | 2.04034200  0.20468749 | 2.05061421  0.20624999 | 2.06085755  0.20781249 | 2.07106898  0.20937499 | 2.08124536  0.21093749 | 2.09138355  0.21249999 | 2.10148032  0.21406249 | 2.11153240  0.21562499 | 2.12153650  0.21718749 | 2.13148924  0.21874999 | 2.14138722  0.22031249 | 2.15122699  0.22187499 | 2.16100507  0.22343749 | 2.17071791  0.22499999 | 2.18036196  0.22656249 | 2.18993362  0.22812499 | 2.19942923  0.22968749 | 2.20884515  0.23124999 | 2.21817767  0.23281249 | 2.22742307  0.23437499 | 2.23657761  0.23593749 | 2.24563751  0.23749999 | 2.25459901  0.23906249 | 2.26345830  0.24062499 | 2.27221158  0.24218749 | 2.28085503  0.24374999 | 2.28938483  0.24531249 | 2.29779715  0.24687499 | 2.30608819  0.24843749 | 2.31425412  0.24999999 | 2.32229114  0.25156249 | 2.33019547  0.25312499 | 2.33796332  0.25468749 | 2.34559095  0.25624999 | 2.35307462  0.25781249 | 2.36041065  0.25937499 | 2.36759535  0.26093749 | 2.37462512  0.26249999 | 2.38149634  0.26406249 | 2.38820550  0.26562499 | 2.39474908  0.26718749 | 2.40112365  0.26874999 | 2.40732584  0.27031249 | 2.41335231  0.27187499 | 2.41919982  0.27343749 | 2.42486519  0.27499999 | 2.43034529  0.27656249 | 2.43563711  0.27812499 | 2.44073768  0.27968749 | 2.44564416  0.28124999 | 2.45035376  0.28281249 | 2.45486380  0.28437499 | 2.45917171  0.28593749 | 2.46327500  0.28749999 | 2.46717129  0.28906249 | 2.47085831  0.29062499 | 2.47433391  0.29218749 | 2.47759603  0.29374999 | 2.48064276  0.2953125 | 2.48347228  0.296875 | 2.48608291  0.2984375 | 2.48847308  0.30000000 | 2.49064136  0.30156250 | 2.49258645  0.30312500 | 2.49430717  0.30468750 | 2.49580248  0.30625000 | 2.49707148  0.30781250 | 2.49811339  0.30937500 | 2.49892758  0.31093750 | 2.49951355  0.31250000 | 2.49987095  0.31406250 | 2.49999956  0.31562500 | 2.49989929  0.31718750 | 2.49957022  0.31875000 | 2.49901255  0.32031250 | 2.49822660  0.32187500 | 2.49721286  0.32343750 | 2.49597196  0.32500000 | 2.49450463  0.32656250 | 2.49281177  0.32812500 | 2.49089441  0.32968750 | 2.48875371  0.33125000 | 2.48639094  0.33281250 | 2.48380754  0.33437500 | 2.48100504  0.33593750 | 2.47798512  0.33750000 | 2.47474958  0.33906250 | 2.47130031  0.34062500 | 2.46763936  0.34218750 | 2.46376887  0.34375000 | 2.45969109  0.34531250 | 2.45540840  0.34687500 | 2.45092325  0.34843750 | 2.44623823  0.35000000 | 2.44135599  0.35156250 | 2.43627930  0.35312500 | 2.43101101  0.35468750 | 2.42555406  0.35625000 | 2.41991148  0.35781250 | 2.41408636  0.35937500 | 2.40808188  0.36093750 | 2.40190128  0.36250000 | 2.39554787  0.36406250 | 2.38902504  0.36562500 | 2.38233620  0.36718750 | 2.37548486  0.36875000 | 2.36847454  0.37031250 | 2.36130883  0.37187500 | 2.35399135  0.37343750 | 2.34652576  0.37500000 | 2.33891576  0.37656250 | 2.33116507  0.37812500 | 2.32327745  0.37968750 | 2.31525666  0.38125000 | 2.30710649  0.38281250 | 2.29883074  0.38437500 | 2.29043323  0.38593750 | 2.28191777  0.38750000 | 2.27328819  0.38906250 | 2.26454831  0.39062500 | 2.25570194  0.39218750 | 2.24675290  0.39375000 | 2.23770497  0.39531250 | 2.22856195  0.39687500 | 2.21932760  0.39843750 | 2.21000567  0.40000000 | 2.20059989  0.40156250 | 2.19111394  0.40312500 | 2.18155151  0.40468750 | 2.17191623  0.40625000 | 2.16221171  0.40781250 | 2.15244152  0.40937500 | 2.14260920  0.41093750 | 2.13271824  0.41250000 | 2.12277210  0.41406250 | 2.11277418  0.41562500 | 2.10272786  0.41718750 | 2.09263644  0.41875000 | 2.08250321  0.42031250 | 2.07233138  0.42187500 | 2.06212413  0.42343750 | 2.05188457  0.42500000 | 2.04161578  0.42656250 | 2.03132075  0.42812500 | 2.02100245  0.42968750 | 2.01066379  0.43125000 | 2.00030760  0.43281250 | 1.98993668  0.43437500 | 1.97955375  0.43593750 | 1.96916149  0.43750000 | 1.95876251  0.43906250 | 1.94835938  0.44062500 | 1.93795458  0.44218750 | 1.92755056  0.44375000 | 1.91714970  0.44531250 | 1.90675431  0.44687500 | 1.89636666  0.44843750 | 1.88598896  0.45000000 | 1.87562335  0.45156250 | 1.86527192  0.45312500 | 1.85493669  0.45468750 | 1.84461964  0.45625000 | 1.83432268  0.45781250 | 1.82404767  0.45937500 | 1.81379641  0.46093750 | 1.80357065  0.46250000 | 1.79337208  0.46406250 | 1.78320234  0.46562500 | 1.77306301  0.46718750 | 1.76295562  0.46875000 | 1.75288165  0.47031250 | 1.74284252  0.47187500 | 1.73283962  0.47343750 | 1.72287425  0.47500000 | 1.71294771  0.47656250 | 1.70306121  0.47812500 | 1.69321594  0.47968750 | 1.68341303  0.48125000 | 1.67365356  0.48281250 | 1.66393858  0.48437500 | 1.65426909  0.48593750 | 1.64464603  0.48750000 | 1.63507032  0.48906250 | 1.62554283  0.49062500 | 1.61606438  0.49218750 | 1.60663576  0.49375000 | 1.59725773  0.49531250 | 1.58793100  0.49687500 | 1.57865623  0.49843750 | 1.56943408  0.50000000 | 1.56026513  0.50156250 | 1.55114995  0.50312500 | 1.54208909  0.50468750 | 1.53308304  0.50625000 | 1.52413227  0.50781250 | 1.51523722  0.50937500 | 1.50639830  0.51093750 | 1.49761587  0.51250000 | 1.48889030  0.51406250 | 1.48022191  0.51562500 | 1.47161098  0.51718750 | 1.46305779  0.51875000 | 1.45456257  0.52031250 | 1.44612555  0.52187500 | 1.43774692  0.52343750 | 1.42942685  0.52500000 | 1.42116548  0.52656250 | 1.41296295  0.52812500 | 1.40481935  0.52968750 | 1.39673477  0.53125000 | 1.38870928  0.53281250 | 1.38074292  0.53437500 | 1.37283571  0.53593750 | 1.36498767  0.53750000 | 1.35719878  0.53906250 | 1.34946903  0.54062500 | 1.34179836  0.54218750 | 1.33418674  0.54375000 | 1.32663407  0.54531250 | 1.31914028  0.54687500 | 1.31170527  0.54843750 | 1.30432893  0.55000000 | 1.29701113  0.55156250 | 1.28975173  0.55312500 | 1.28255058  0.55468750 | 1.27540753  0.55625000 | 1.26832240  0.55781250 | 1.26129502  0.55937500 | 1.25432518  0.56093750 | 1.24741269  0.56250000 | 1.24055734  0.56406250 | 1.23375892  0.56562500 | 1.22701719  0.56718750 | 1.22033192  0.56875000 | 1.21370287  0.57031250 | 1.20712979  0.57187500 | 1.20061243  0.57343750 | 1.19415052  0.57500000 | 1.18774380  0.57656250 | 1.18139200  0.57812500 | 1.17509482  0.57968750 | 1.16885200  0.58125000 | 1.16266324  0.58281250 | 1.15652825  0.58437500 | 1.15044673  0.58593750 | 1.14441838  0.58750000 | 1.13844289  0.58906250 | 1.13251996  0.59062500 | 1.12664928  0.59218750 | 1.12083053  0.59375000 | 1.11506339  0.59531250 | 1.10934755  0.59687500 | 1.10368267  0.59843750 | 1.09806845  0.60000000 | 1.09250455  0.60156250 | 1.08699064  0.60312500 | 1.08152639  0.60468750 | 1.07611148  0.60625000 | 1.07074558  0.60781250 | 1.06542834  0.60937500 | 1.06015944  0.61093750 | 1.05493854  0.61250000 | 1.04976531  0.61406250 | 1.04463941  0.61562500 | 1.03956050  0.61718750 | 1.03452826  0.61875000 | 1.02954234  0.62031250 | 1.02460242  0.62187500 | 1.01970815  0.62343750 | 1.01485920  0.62500000 | 1.01005523  0.62656250 | 1.00529592  0.62812500 | 1.00058092  0.62968750 | 0.99590992  0.63125000 | 0.99128256  0.63281250 | 0.98669854  0.63437500 | 0.98215750  0.63593750 | 0.97765913  0.63750000 | 0.97320311  0.63906250 | 0.96878909  0.64062500 | 0.96441676  0.64218750 | 0.96008580  0.64375000 | 0.95579588  0.64531250 | 0.95154668  0.64687500 | 0.94733789  0.64843750 | 0.94316918  0.65000000 | 0.93904024  0.65156250 | 0.93495076  0.65312500 | 0.93090043  0.65468750 | 0.92688892  0.65625000 | 0.92291595  0.65781250 | 0.91898119  0.65937500 | 0.91508435  0.66093750 | 0.91122511  0.66250000 | 0.90740319  0.66406250 | 0.90361828  0.66562500 | 0.89987009  0.66718750 | 0.89615832  0.66875000 | 0.89248267  0.67031250 | 0.88884287  0.67187500 | 0.88523861  0.67343750 | 0.88166961  0.67500000 | 0.87813560  0.67656250 | 0.87463628  0.67812500 | 0.87117138  0.67968750 | 0.86774062  0.68125000 | 0.86434372  0.68281250 | 0.86098042  0.68437500 | 0.85765044  0.68593750 | 0.85435351  0.68750000 | 0.85108937  0.68906250 | 0.84785776  0.69062500 | 0.84465840  0.69218750 | 0.84149105  0.69375000 | 0.83835545  0.69531250 | 0.83525133  0.69687500 | 0.83217846  0.69843750 | 0.82913657  0.70000000 | 0.82612543  0.70156250 | 0.82314478  0.70312500 | 0.82019438  0.70468750 | 0.81727400  0.70625000 | 0.81438339  0.70781250 | 0.81152231  0.70937500 | 0.80869054  0.71093750 | 0.80588784  0.71250000 | 0.80311398  0.71406250 | 0.80036874  0.71562500 | 0.79765188  0.71718750 | 0.79496319  0.71875000 | 0.79230245  0.72031250 | 0.78966944  0.72187500 | 0.78706394  0.72343750 | 0.78448574  0.72500000 | 0.78193463  0.72656250 | 0.77941040  0.72812500 | 0.77691284  0.72968750 | 0.77444174  0.73125000 | 0.77199691  0.73281250 | 0.76957814  0.73437500 | 0.76718524  0.73593750 | 0.76481800  0.73750000 | 0.76247624  0.73906250 | 0.76015977  0.74062500 | 0.75786838  0.74218750 | 0.75560191  0.74375000 | 0.75336015  0.74531250 | 0.75114293  0.74687500 | 0.74895006  0.74843750 | 0.74678137  0.75000000 | 0.74463668  0.75156250 | 0.74251581  0.75312500 | 0.74041859  0.75468750 | 0.73834485  0.75625000 | 0.73629442  0.75781250 | 0.73426714  0.75937500 | 0.73226282  0.76093750 | 0.73028133  0.76250000 | 0.72832248  0.76406250 | 0.72638613  0.76562500 | 0.72447211  0.76718750 | 0.72258028  0.76875000 | 0.72071047  0.77031250 | 0.71886253  0.77187500 | 0.71703632  0.77343750 | 0.71523168  0.77500000 | 0.71344848  0.77656250 | 0.71168656  0.77812500 | 0.70994578  0.77968750 | 0.70822601  0.78125000 | 0.70652710  0.78281250 | 0.70484892  0.78437500 | 0.70319132  0.78593750 | 0.70155419  0.78750000 | 0.69993738  0.78906250 | 0.69834076  0.79062500 | 0.69676422  0.79218750 | 0.69520761  0.79375000 | 0.69367082  0.79531250 | 0.69215372  0.79687500 | 0.69065619  0.79843750 | 0.68917811  0.80000000 | 0.68771936  0.80156250 | 0.68627982  0.80312500 | 0.68485939  0.80468750 | 0.68345794  0.80625000 | 0.68207537  0.80781250 | 0.68071157  0.80937500 | 0.67936641  0.81093750 | 0.67803981  0.81250000 | 0.67673165  0.81406250 | 0.67544183  0.81562500 | 0.67417025  0.81718750 | 0.67291680  0.81875000 | 0.67168139  0.82031250 | 0.67046392  0.82187500 | 0.66926429  0.82343750 | 0.66808240  0.82500000 | 0.66691817  0.82656250 | 0.66577151  0.82812500 | 0.66464231  0.82968750 | 0.66353050  0.83125000 | 0.66243598  0.83281250 | 0.66135867  0.83437500 | 0.66029848  0.83593750 | 0.65925534  0.83750000 | 0.65822915  0.83906250 | 0.65721984  0.84062500 | 0.65622733  0.84218750 | 0.65525154  0.84375000 | 0.65429240  0.84531250 | 0.65334982  0.84687500 | 0.65242374  0.84843750 | 0.65151409  0.85000000 | 0.65062079  0.85156250 | 0.64974376  0.85312500 | 0.64888296  0.85468750 | 0.64803830  0.85625000 | 0.64720972  0.85781250 | 0.64639716  0.85937500 | 0.64560055  0.86093750 | 0.64481984  0.86250000 | 0.64405495  0.86406250 | 0.64330584  0.86562500 | 0.64257244  0.86718750 | 0.64185470  0.86875000 | 0.64115256  0.87031250 | 0.64046596  0.87187500 | 0.63979486  0.87343750 | 0.63913920  0.87500000 | 0.63849893  0.87656250 | 0.63787401  0.87812500 | 0.63726437  0.87968750 | 0.63666999  0.88125000 | 0.63609080  0.88281250 | 0.63552677  0.88437500 | 0.63497785  0.88593750 | 0.63444400  0.88750000 | 0.63392518  0.88906250 | 0.63342135  0.89062500 | 0.63293247  0.89218750 | 0.63245851  0.89375000 | 0.63199942  0.89531250 | 0.63155517  0.89687500 | 0.63112572  0.89843750 | 0.63071105  0.90000000 | 0.63031113  0.90156250 | 0.62992591  0.90312500 | 0.62955538  0.90468750 | 0.62919950  0.90625000 | 0.62885824  0.90781250 | 0.62853159  0.90937500 | 0.62821951  0.91093750 | 0.62792198  0.91250000 | 0.62763898  0.91406250 | 0.62737049  0.91562500 | 0.62711648  0.91718750 | 0.62687694  0.91875000 | 0.62665185  0.92031250 | 0.62644119  0.92187500 | 0.62624495  0.92343750 | 0.62606311  0.92500000 | 0.62589565  0.92656250 | 0.62574256  0.92812500 | 0.62560384  0.92968750 | 0.62547947  0.93125000 | 0.62536944  0.93281250 | 0.62527375  0.93437500 | 0.62519238  0.93593750 | 0.62512533  0.93750000 | 0.62507259  0.93906250 | 0.62503417  0.94062500 | 0.62501005  0.94218750 | 0.62500024  0.94375000 | 0.62500474  0.94531250 | 0.62502354  0.94687500 | 0.62505664  0.94843750 | 0.62510406  0.95000000 | 0.62516579  0.95156250 | 0.62524184  0.95312500 | 0.62533221  0.95468750 | 0.62543691  0.95625000 | 0.62555595  0.95781250 | 0.62568934  0.95937500 | 0.62583709  0.96093750 | 0.62599920  0.96250000 | 0.62617570  0.96406250 | 0.62636659  0.96562500 | 0.62657189  0.96718750 | 0.62679162  0.96875000 | 0.62702579  0.97031250 | 0.62727442  0.97187500 | 0.62753752  0.97343750 | 0.62781513  0.97500000 | 0.62810726  0.97656250 | 0.62841393  0.97812500 | 0.62873516  0.97968750 | 0.62907099  0.98125000 | 0.62942143  0.98281250 | 0.62978652  0.98437500 | 0.63016627  0.98593750 | 0.63056073  0.98750000 | 0.63096992  0.98906250 | 0.63139387  0.99062500 | 0.63183261  0.99218750 | 0.63228618  0.99375000 | 0.63275462  0.99531250 | 0.63323795  0.99687500 | 0.63373622  0.99843750 | 0.63424947  1.00000000 | 0.63477773  1.00156250 | 0.63532104  1.00312500 | 0.63587945  1.00468750 | 0.63645300  1.00625000 | 0.63704174  1.00781250 | 0.63764570  1.00937500 | 0.63826494  1.01093750 | 0.63889950  1.01250000 | 0.63954943  1.01406250 | 0.64021479  1.01562500 | 0.64089562  1.01718750 | 0.64159198  1.01875000 | 0.64230392  1.02031250 | 0.64303149  1.02187500 | 0.64377476  1.02343750 | 0.64453378  1.02500000 | 0.64530860  1.02656250 | 0.64609930  1.02812500 | 0.64690592  1.02968750 | 0.64772854  1.03125000 | 0.64856722  1.03281250 | 0.64942202  1.03437500 | 0.65029301  1.03593750 | 0.65118025  1.03750000 | 0.65208382  1.03906250 | 0.65300379  1.04062500 | 0.65394023  1.04218750 | 0.65489321  1.04375000 | 0.65586280  1.04531250 | 0.65684909  1.04687500 | 0.65785215  1.04843750 | 0.65887205  1.05000000 | 0.65990889  1.05156250 | 0.66096273  1.05312500 | 0.66203367  1.05468750 | 0.66312178  1.05625000 | 0.66422716  1.05781250 | 0.66534989  1.05937500 | 0.66649005  1.06093750 | 0.66764774  1.06250000 | 0.66882306  1.06406250 | 0.67001608  1.06562500 | 0.67122691  1.06718750 | 0.67245565  1.06875000 | 0.67370238  1.07031250 | 0.67496721  1.07187500 | 0.67625025  1.07343750 | 0.67755158  1.07500000 | 0.67887132  1.07656250 | 0.68020956  1.07812500 | 0.68156643  1.07968750 | 0.68294201  1.08125000 | 0.68433643  1.08281250 | 0.68574980  1.08437500 | 0.68718222  1.08593750 | 0.68863381  1.08750000 | 0.69010470  1.08906250 | 0.69159499  1.09062500 | 0.69310480  1.09218750 | 0.69463426  1.09375000 | 0.69618349  1.09531250 | 0.69775262  1.09687500 | 0.69934176  1.09843750 | 0.70095105  1.10000000 | 0.70258062  1.10156250 | 0.70423059  1.10312500 | 0.70590111  1.10468750 | 0.70759230  1.10625000 | 0.70930431  1.10781250 | 0.71103726  1.10937500 | 0.71279131  1.11093750 | 0.71456659  1.11250000 | 0.71636324  1.11406250 | 0.71818142  1.11562500 | 0.72002127  1.11718750 | 0.72188293  1.11875000 | 0.72376657  1.12031250 | 0.72567232  1.12187500 | 0.72760036  1.12343750 | 0.72955083  1.12500000 | 0.73152389  1.12656250 | 0.73351970  1.12812500 | 0.73553843  1.12968750 | 0.73758024  1.13125000 | 0.73964530  1.13281250 | 0.74173378  1.13437500 | 0.74384584  1.13593750 | 0.74598166  1.13750000 | 0.74814141  1.13906250 | 0.75032527  1.14062500 | 0.75253342  1.14218750 | 0.75476604  1.14375000 | 0.75702331  1.14531250 | 0.75930542  1.14687500 | 0.76161255  1.14843750 | 0.76394489  1.15000000 | 0.76630264  1.15156250 | 0.76868598  1.15312500 | 0.77109511  1.15468750 | 0.77353024  1.15625000 | 0.77599155  1.15781250 | 0.77847925  1.15937500 | 0.78099355  1.16093750 | 0.78353465  1.16250000 | 0.78610276  1.16406250 | 0.78869809  1.16562500 | 0.79132086  1.16718750 | 0.79397127  1.16875000 | 0.79664955  1.17031250 | 0.79935591  1.17187500 | 0.80209058  1.17343750 | 0.80485378  1.175 | 0.80764573  1.1765625 | 0.81046668  1.17812499 | 0.81331683  1.17968749 | 0.81619644  1.18124999 | 0.81910574  1.18281249 | 0.82204495  1.18437499 | 0.82501433  1.18593749 | 0.82801412  1.18749999 | 0.83104455  1.18906249 | 0.83410588  1.19062499 | 0.83719836  1.19218749 | 0.84032223  1.19374999 | 0.84347776  1.19531249 | 0.84666519  1.19687499 | 0.84988479  1.19843749 | 0.85313681  1.19999999 | 0.85642153  1.20156249 | 0.85973919  1.20312499 | 0.86309008  1.20468749 | 0.86647446  1.20624999 | 0.86989261  1.20781249 | 0.87334479  1.20937499 | 0.87683129  1.21093749 | 0.88035238  1.21249999 | 0.88390834  1.21406249 | 0.88749946  1.21562499 | 0.89112603  1.21718749 | 0.89478832  1.21874999 | 0.89848664  1.22031249 | 0.90222126  1.22187499 | 0.90599250  1.22343749 | 0.90980063  1.22499999 | 0.91364596  1.22656249 | 0.91752879  1.22812499 | 0.92144943  1.22968749 | 0.92540817  1.23124999 | 0.92940532  1.23281249 | 0.93344119  1.23437499 | 0.93751609  1.23593749 | 0.94163033  1.23749999 | 0.94578422  1.23906249 | 0.94997808  1.24062499 | 0.95421223  1.24218749 | 0.95848698  1.24374999 | 0.96280266  1.24531249 | 0.96715958  1.24687499 | 0.97155806  1.24843749 | 0.97599844  1.24999999 | 0.98048104  1.25156249 | 0.98500618  1.25312499 | 0.98957419  1.25468749 | 0.99418541  1.25624999 | 0.99884016  1.25781249 | 1.00353877  1.25937499 | 1.00828158  1.26093749 | 1.01306891  1.26249999 | 1.01790111  1.26406249 | 1.02277850  1.26562499 | 1.02770142  1.26718749 | 1.03267021  1.26874999 | 1.03768520  1.27031249 | 1.04274672  1.27187499 | 1.04785512  1.27343749 | 1.05301073  1.27499999 | 1.05821387  1.27656249 | 1.06346490  1.27812499 | 1.06876414  1.27968749 | 1.07411192  1.28124999 | 1.07950858  1.28281249 | 1.08495446  1.28437499 | 1.09044987  1.28593749 | 1.09599516  1.28749999 | 1.10159065  1.28906249 | 1.10723666  1.29062499 | 1.11293353  1.29218749 | 1.11868157  1.29374999 | 1.12448111  1.29531249 | 1.13033246  1.29687499 | 1.13623594  1.29843749 | 1.14219185  1.29999999 | 1.14820053  1.30156249 | 1.15426225  1.30312499 | 1.16037734  1.30468749 | 1.16654609  1.30624999 | 1.17276879  1.30781249 | 1.17904573  1.30937499 | 1.18537721  1.31093749 | 1.19176349  1.31249999 | 1.19820486  1.31406249 | 1.20470159  1.31562499 | 1.21125393  1.31718749 | 1.21786215  1.31874999 | 1.22452650  1.32031249 | 1.23124723  1.32187499 | 1.23802456  1.32343749 | 1.24485873  1.32499999 | 1.25174996  1.32656249 | 1.25869846  1.32812499 | 1.26570444  1.32968749 | 1.27276809  1.33124999 | 1.27988960  1.33281249 | 1.28706914  1.33437499 | 1.29430688  1.33593749 | 1.30160296  1.33749999 | 1.30895754  1.33906249 | 1.31637073  1.34062499 | 1.32384267  1.34218749 | 1.33137344  1.34374999 | 1.33896315  1.34531249 | 1.34661187  1.34687499 | 1.35431967  1.34843749 | 1.36208657  1.34999999 | 1.36991263  1.35156249 | 1.37779786  1.35312499 | 1.38574224  1.35468749 | 1.39374577  1.35624999 | 1.40180840  1.35781249 | 1.40993007  1.35937499 | 1.41811072  1.36093749 | 1.42635024  1.36249999 | 1.43464851  1.36406249 | 1.44300540  1.36562499 | 1.45142075  1.36718749 | 1.45989436  1.36874999 | 1.46842604  1.37031249 | 1.47701554  1.37187499 | 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1.87177521  1.43593749 | 1.88213580  1.43749999 | 1.89250925  1.43906249 | 1.90289346  1.44062499 | 1.91328623  1.44218749 | 1.92368532  1.44374999 | 1.93408845  1.44531249 | 1.94449324  1.44687499 | 1.95489728  1.44843749 | 1.96529809  1.44999999 | 1.97569315  1.45156249 | 1.98607985  1.45312499 | 1.99645556  1.45468749 | 2.00681754  1.45624999 | 2.01716305  1.45781249 | 2.02748925  1.45937499 | 2.03779326  1.46093749 | 2.04807216  1.46249999 | 2.05832293  1.46406249 | 2.06854255  1.46562499 | 2.07872791  1.46718749 | 2.08887586  1.46874999 | 2.09898319  1.47031249 | 2.10904665  1.47187499 | 2.11906295  1.47343749 | 2.12902872  1.47499999 | 2.13894059  1.47656249 | 2.14879510  1.47812499 | 2.15858879  1.47968749 | 2.16831812  1.48124999 | 2.17797955  1.48281249 | 2.18756948  1.48437499 | 2.19708427  1.48593749 | 2.20652027  1.48749999 | 2.21587380  1.48906249 | 2.22514113  1.49062499 | 2.23431852  1.49218749 | 2.24340222  1.49374999 | 2.25238845  1.49531249 | 2.26127342  1.49687499 | 2.27005331  1.49843749 | 2.27872432  1.49999999 | 2.28728263  1.50156249 | 2.29572441  1.50312499 | 2.30404585  1.50468749 | 2.31224313  1.50624999 | 2.32031244  1.50781249 | 2.32824999  1.50937499 | 2.33605200  1.51093749 | 2.34371471  1.51249999 | 2.35123439  1.51406249 | 2.35860733  1.51562499 | 2.36582986  1.51718749 | 2.37289834  1.51874999 | 2.37980917  1.52031249 | 2.38655880  1.52187499 | 2.39314372  1.52343749 | 2.39956048  1.52499999 | 2.40580568  1.52656249 | 2.41187599  1.52812499 | 2.41776813  1.52968749 | 2.42347891  1.53124999 | 2.42900519  1.53281249 | 2.43434393  1.53437499 | 2.43949215  1.53593749 | 2.44444697  1.53749999 | 2.44920559  1.53906249 | 2.45376532  1.54062499 | 2.45812353  1.54218749 | 2.46227773  1.54374999 | 2.46622551  1.54531249 | 2.46996458  1.54687499 | 2.47349275  1.54843749 | 2.47680794  1.54999999 | 2.47990820  1.55156249 | 2.48279169  1.55312499 | 2.48545669  1.55468749 | 2.48790161  1.55624999 | 2.49012498  1.55781249 | 2.49212548  1.55937499 | 2.49390188  1.56093749 | 2.49545312  1.56249999 | 2.49677825  1.56406249 | 2.49787648  1.56562499 | 2.49874713  1.56718749 | 2.49938968  1.56874999 | 2.49980373  1.57031249 | 2.49998902  1.57187499 | 2.49994546  1.57343749 | 2.49967305  1.57499999 | 2.49917198  1.57656249 | 2.49844254  1.57812499 | 2.49748518  1.57968749 | 2.49630048  1.58124999 | 2.49488916  1.58281249 | 2.49325209  1.58437499 | 2.49139024  1.58593749 | 2.48930474  1.58749999 | 2.48699686  1.58906249 | 2.48446798  1.59062499 | 2.48171960  1.59218749 | 2.47875338  1.59374999 | 2.47557107  1.59531249 | 2.47217456  1.59687499 | 2.46856586  1.59843749 | 2.46474707  1.59999999 | 2.46072043  1.60156249 | 2.45648827  1.60312499 | 2.45205304  1.60468749 | 2.44741728  1.60624999 | 2.44258364  1.60781249 | 2.43755486  1.60937499 | 2.43233376  1.61093749 | 2.42692327  1.61249999 | 2.42132639  1.61406249 | 2.41554619  1.61562499 | 2.40958584  1.61718749 | 2.40344856  1.61874999 | 2.39713765  1.62031249 | 2.39065647  1.62187499 | 2.38400843  1.62343749 | 2.37719702  1.62499999 | 2.37022575  1.62656249 | 2.36309820  1.62812499 | 2.35581797  1.62968749 | 2.34838873  1.63124999 | 2.34081416  1.63281249 | 2.33309797  1.63437499 | 2.32524392  1.63593749 | 2.31725576  1.63749999 | 2.30913729  1.63906249 | 2.30089229  1.64062499 | 2.29252459  1.64218749 | 2.28403800  1.64374999 | 2.27543633  1.64531249 | 2.26672342  1.64687499 | 2.25790308  1.64843749 | 2.24897911  1.64999999 | 2.23995533  1.65156249 | 2.23083551  1.65312499 | 2.22162344  1.65468749 | 2.21232285  1.65624999 | 2.20293749  1.65781249 | 2.19347106  1.65937499 | 2.18392723  1.66093749 | 2.17430966  1.66249999 | 2.16462196  1.66406249 | 2.15486771  1.66562499 | 2.14505045  1.66718749 | 2.13517370  1.66874999 | 2.12524090  1.67031249 | 2.11525550  1.67187499 | 2.10522085  1.67343749 | 2.09514030  1.67499999 | 2.08501713  1.67656249 | 2.07485457  1.67812499 | 2.06465580  1.67968749 | 2.05442395  1.68124999 | 2.04416212  1.68281249 | 2.03387331  1.68437499 | 2.02356050  1.68593749 | 2.01322662  1.68749999 | 2.00287451  1.68906249 | 1.99250698  1.69062499 | 1.98212677  1.69218749 | 1.97173658  1.69374999 | 1.96133903  1.69531249 | 1.95093669  1.69687499 | 1.94053207  1.69843749 | 1.93012763  1.69999999 | 1.91972577  1.70156249 | 1.90932881  1.70312499 | 1.89893904  1.70468749 | 1.88855868  1.70624999 | 1.87818987  1.70781249 | 1.86783473  1.70937499 | 1.85749530  1.71093749 | 1.84717357  1.71249999 | 1.83687146  1.71406249 | 1.82659084  1.71562499 | 1.81633354  1.71718749 | 1.80610130  1.71874999 | 1.79589584  1.72031249 | 1.78571881  1.72187499 | 1.77557180  1.72343749 | 1.76545636  1.72499999 | 1.75537398  1.72656249 | 1.74532609  1.72812499 | 1.73531408  1.72968749 | 1.72533930  1.73124999 | 1.71540302  1.73281249 | 1.70550649  1.73437499 | 1.69565090  1.73593749 | 1.68583739  1.73749999 | 1.67606707  1.73906249 | 1.66634097  1.74062499 | 1.65666012  1.74218749 | 1.64702547  1.74374999 | 1.63743795  1.74531249 | 1.62789843  1.74687499 | 1.61840776  1.74843749 | 1.60896673  1.74999999 | 1.59957610  1.75156249 | 1.59023659  1.75312499 | 1.58094889  1.75468749 | 1.57171365  1.75624999 | 1.56253146  1.75781249 | 1.55340292  1.75937499 | 1.54432855  1.76093749 | 1.53530888  1.76249999 | 1.52634438  1.76406249 | 1.51743548  1.76562499 | 1.50858262  1.76718749 | 1.49978617  1.76874999 | 1.49104648  1.77031249 | 1.48236389  1.77187499 | 1.47373870  1.77343749 | 1.46517119  1.77499999 | 1.45666159  1.77656249 | 1.44821013  1.77812499 | 1.43981702  1.77968749 | 1.43148243  1.78124999 | 1.42320651  1.78281249 | 1.41498939  1.78437499 | 1.40683118  1.78593749 | 1.39873198  1.78749999 | 1.39069184  1.78906249 | 1.38271083  1.79062499 | 1.37478896  1.79218749 | 1.36692627  1.79374999 | 1.35912273  1.79531249 | 1.35137833  1.79687499 | 1.34369303  1.79843749 | 1.33606679  1.79999999 | 1.32849952  1.80156249 | 1.32099116  1.80312499 | 1.31354160  1.80468749 | 1.30615073  1.80624999 | 1.29881844  1.80781249 | 1.29154459  1.80937499 | 1.28432903  1.81093749 | 1.27717160  1.81249999 | 1.27007214  1.81406249 | 1.26303047  1.81562499 | 1.25604639  1.81718749 | 1.24911972  1.81874999 | 1.24225023  1.82031249 | 1.23543773  1.82187499 | 1.22868198  1.82343749 | 1.22198274  1.82499999 | 1.21533979  1.82656249 | 1.20875287  1.82812499 | 1.20222173  1.82968749 | 1.19574611  1.83124999 | 1.18932574  1.83281249 | 1.18296036  1.83437499 | 1.17664968  1.83593749 | 1.17039342  1.83749999 | 1.16419129  1.83906249 | 1.15804301  1.84062499 | 1.15194827  1.84218749 | 1.14590678  1.84374999 | 1.13991822  1.84531249 | 1.13398231  1.84687499 | 1.12809871  1.84843749 | 1.12226712  1.84999999 | 1.11648723  1.85156249 | 1.11075871  1.85312499 | 1.10508124  1.85468749 | 1.09945450  1.85624999 | 1.09387816  1.85781249 | 1.08835190  1.85937499 | 1.08287538  1.86093749 | 1.07744828  1.86249999 | 1.07207027  1.86406249 | 1.06674100  1.86562499 | 1.06146016  1.86718749 | 1.05622740  1.86874999 | 1.05104239  1.87031249 | 1.04590480  1.87187499 | 1.04081428  1.87343749 | 1.03577052  1.87499999 | 1.03077315  1.87656249 | 1.02582187  1.87812499 | 1.02091632  1.87968749 | 1.01605617  1.88124999 | 1.01124109  1.88281249 | 1.00647075  1.88437499 | 1.00174481  1.88593749 | 0.99706294  1.88749999 | 0.99242480  1.88906249 | 0.98783007  1.89062499 | 0.98327842  1.89218749 | 0.97876951  1.89374999 | 0.97430302  1.89531249 | 0.96987863  1.89687499 | 0.96549601  1.89843749 | 0.96115483  1.89999999 | 0.95685477  1.90156249 | 0.95259551  1.90312499 | 0.94837674  1.90468749 | 0.94419813  1.90624999 | 0.94005937  1.90781249 | 0.93596015  1.90937499 | 0.93190014  1.91093749 | 0.92787905  1.91249999 | 0.92389656  1.91406249 | 0.91995236  1.91562499 | 0.91604615  1.91718749 | 0.91217763  1.91874999 | 0.90834650  1.92031249 | 0.90455245  1.92187499 | 0.90079519  1.92343749 | 0.89707442  1.92499999 | 0.89338985  1.92656249 | 0.88974119  1.92812499 | 0.88612815  1.92968749 | 0.88255045  1.93124999 | 0.87900780  1.93281249 | 0.87549991  1.93437499 | 0.87202651  1.93593749 | 0.86858732  1.93749999 | 0.86518206  1.93906249 | 0.86181046  1.94062499 | 0.85847225  1.94218749 | 0.85516716  1.94374999 | 0.85189492  1.94531249 | 0.84865527  1.94687499 | 0.84544795  1.94843749 | 0.84227270  1.94999999 | 0.83912925  1.95156249 | 0.83601736  1.95312499 | 0.83293677  1.95468749 | 0.82988723  1.95624999 | 0.82686850  1.95781249 | 0.82388031  1.95937499 | 0.82092245  1.96093749 | 0.81799465  1.96249999 | 0.81509668  1.96406249 | 0.81222832  1.96562499 | 0.80938931  1.96718749 | 0.80657943  1.96874999 | 0.80379844  1.97031249 | 0.80104613  1.97187499 | 0.79832227  1.97343749 | 0.79562662  1.97499999 | 0.79295898  1.97656249 | 0.79031912  1.97812499 | 0.78770682  1.97968749 | 0.78512188  1.98124999 | 0.78256408  1.98281249 | 0.78003321  1.98437499 | 0.77752906  1.98593749 | 0.77505142  1.98749999 | 0.77260010  1.98906249 | 0.77017490  1.99062499 | 0.76777561  1.99218749 | 0.76540203  1.99374999 | 0.76305398  1.99531249 | 0.76073126  1.99687499 | 0.75843368  1.99843749 | 0.75616105  1.99999999 | 0.75391318  The error at t=2 is: 5.928590951498336E-14 |