```
Problem 1.2
The root 2.101702 and the iteration number is 8
>> p1_3
2.3(a)
        x                       B
      3.616051604900626     0.200000000000000
      3.493076102985799     0.218181818181818
      3.383862481860943     0.236363636363636
      3.285972792246125     0.254545454545455
      3.197537989984256     0.272727272727273
      3.117097308081309     0.290909090909091
      3.043489905081853     0.309090909090909
      2.975779778274427     0.327272727272727
      2.913202493055234     0.345454545454545
      2.855126602209238     0.363636363636364
      2.801025189038661     0.381818181818182
      2.750454532889821     0.400000000000000
      2.703037878701224     0.418181818181818
      2.658452925326257     0.436363636363636
      2.616422064284527     0.454545454545455
      2.576704680666015     0.472727272727273
      2.539091019509928     0.490909090909091
      2.503397254242238     0.509090909090909
      2.469461487859869     0.527272727272727
      2.437140484934249     0.545454545454545
      2.406306981382999     0.563636363636364
      2.376847454834023     0.581818181818182
      2.348660265031187     0.600000000000000
      2.321654093694684     0.618181818181818
      2.295746628362690     0.636363636363636
      2.270863446283093     0.654545454545455
      2.246937063323301     0.672727272727273
      2.223906119757963     0.690909090909091
      2.201714680207780     0.709090909090909
      2.180311629247505     0.727272727272727
      2.159650147576960     0.745454545454545
      2.139687256339337     0.763636363636364
      2.120383419330688     0.781818181818182
      2.101702194587726     0.800000000000000
      2.083609928255490     0.818181818181818
      2.066075484790070     0.836363636363636
      2.049070008497000     0.854545454545455
      2.032566712184297     0.872727272727273
      2.016540689352830     0.890909090909091
      2.000968746881191     0.909090909090909
      1.985829255607987     0.927272727272727
      1.971102016587438     0.945454545454546
      1.956768141107634     0.963636363636364
      1.942809942824930     0.981818181818182
      1.929210840591545     1.000000000000000
      1.915955270743052     1.018181818181818
```

1.903028607774031	1.036363636363636
1.890417092467992	1.054545454545455
1.878107766665862	1.072727272727273
1.866088413958751	1.090909090909091
1.854347505678079	1.109090909090909
1.842874151631604	1.127272727272727
1.831658055099157	1.145454545454546
1.820689471658590	1.163636363636364
1.809959171461708	1.181818181818182
1.799458404622920	1.200000000000000
1.789178869420885	1.218181818181818
1.779112683046299	1.236363636363636
1.769252354657809	1.254545454545455
1.759590760533364	1.272727272727273
1.750121121126685	1.290909090909091
1.740836979858208	1.309090909090909
1.731732183487289	1.327272727272727
1.722800863927888	1.345454545454546
1.714037421383662	1.363636363636364
1.705436508690514	1.381818181818182
1.696993016765542	1.400000000000000
1.688702061070922	1.418181818181818
1.680558969009946	1.436363636363636
1.672559268180091	1.454545454545455
1.664698675414950	1.472727272727273
1.656973086553009	1.490909090909091
1.649378566876855	1.509090909090909
1.641911342171375	1.527272727272727
1.634567790354034	1.545454545454546
1.627344433634362	1.563636363636364
1.620237931163474	1.581818181818182
1.613245072137739	1.600000000000000
1.606362769323732	1.618181818181818
1.599588052974317	1.636363636363637
1.592918065108171	1.654545454545455
1.586350054127730	1.672727272727273
1.579881369749551	1.690909090909091
1.573509458232253	1.709090909090909
1.567231857872884	1.727272727272727
1.561046194760629	1.745454545454545
1.554950178767927	1.763636363636364
1.548941599763888	1.781818181818182
1.543018324035547	1.800000000000000
1.537178290903585	1.818181818181818
1.531419509520107	1.836363636363636
1.525740055836999	1.854545454545455
1.520138069734191	1.872727272727273
1.514611752297942	1.890909090909091
1.509159363239935	1.909090909090909
1.503779218448641	1.927272727272727
1.498469687664992	1.945454545454546

```
    1.493229192274960    1.963636363636364
    1.488056203212128    1.981818181818182
    1.482949238963828    2.000000000000000


2.3(b)
    x                    A
    1.482949238963828    1.000000000000000
    1.510724680460184    1.050505050505051
    1.537710658862382    1.101010101010101
    1.563964932539387    1.151515151515152
    1.589538699798354    1.202020202020202
    1.614477586443393    1.252525252525253
    1.638822451111334    1.303030303030303
    1.662610047713196    1.353535353535354
    1.685873574698925    1.404040404040404
    1.708643133826026    1.454545454545455
    1.730946115950514    1.505050505050505
    1.752807527494151    1.555555555555556
    1.774250268329626    1.606060606060606
    1.795295369605504    1.656565656565657
    1.815962198325034    1.707070707070707
    1.836268634167566    1.757575757575758
    1.856231223004242    1.808080808080808
    1.875865310741870    1.858585858585859
    1.895185160479382    1.909090909090909
    1.914204055441892    1.959595959595960
    1.932934389739396    2.010101010101010
    1.951387748658689    2.060606060606061
    1.969574979921506    2.111111111111111
    1.987506257116245    2.161616161616162
    2.005191136324930    2.212121212121212
    2.022638606813531    2.262626262626263
    2.039857136526177    2.313131313131313
    2.056854713017302    2.363636363636363
    2.073638880366596    2.414141414141414
    2.090216772546524    2.464646464646465
    2.106595143648789    2.515151515151515
    2.122780395322360    2.565656565656566
    2.138778601729971    2.616161616161616
    2.154595532290944    2.666666666666667
    2.170236672444792    2.717171717171717
    2.185707242641325    2.767676767676768
    2.201012215738245    2.818181818181818
    2.216156332965868    2.868686868686869
    2.231144118600047    2.919191919191919
    2.245979893468333    2.969696969696970
    2.260667787400348    3.020202020202020
    2.275211750721150    3.070707070707071
    2.289615564875646    3.121212121212121
    2.303882852262361    3.171717171717172
    2.318017085348922    3.222222222222222
```

```
2.332021595127818    3.272727272727273
2.345899578974899    3.323232323232323
2.359654107957546    3.373737373737374
2.373288133640061    3.424242424242424
2.386804494427554    3.474747474747475
2.400205921485850    3.525252525252525
2.413495044271420    3.575757575757576
2.426674395702165    3.626262626262626
2.439746416997034    3.676767676767677
2.452713462209951    3.727272727272727
2.465577802481226    3.777777777777778
2.478341630027583    3.828282828282828
2.491007061890130    3.878787878787879
2.503576143457884    3.929292929292930
2.516050851783016    3.979797979797980
2.528433098702615    4.030303030303030
2.540724733780524    4.080808080808081
2.552927547081735    4.131313131313132
2.565043271790789    4.181818181818182
2.577073586684733    4.232323232323232
2.589020118470345    4.282828282828283
2.600884443994596    4.333333333333334
2.612668092336612    4.383838383838384
2.624372546788785    4.434343434343434
2.635999246734098    4.484848484848484
2.647549589426207    4.535353535353536
2.659024931678348    4.585858585858587
2.670426591466689    4.636363636363637
2.681755849453333    4.686868686868687
2.693013950433842    4.737373737373737
2.704202104713775    4.787878787878788
2.715321489418422    4.838383838383838
2.726373249739663    4.888888888888889
2.737358500123570    4.939393939393939
2.748278325402149    4.989898989898990
2.759133781872396    5.040404040404041
2.769925898325604    5.090909090909091
2.780655677029712    5.141414141414141
2.791324094667253    5.191919191919192
2.801932103231334    5.242424242424242
2.812480630881909    5.292929292929293
2.822970582764465    5.343434343434343
2.833402841793113    5.393939393939394
2.843778269399949    5.444444444444445
2.854097706252430    5.494949494949495
2.864361972940432    5.545454545454546
2.874571870634510    5.595959595959596
2.884728181716836    5.646464646464646
2.894831670386167    5.696969696969697
2.904883083238151    5.747474747474747
2.914883149822169    5.797979797979798
```

```
   2.924832583175862    5.848484848484849
   2.934732080338425    5.898989898989899
   2.944582322843687    5.949494949494950
   2.954383977193928    6.000000000000000

>>
```