```
Using euler method
euler -y^{(1/2)}/(4*\log(x + 1))
                                      -y^{(1/2)}/(2*log(x + 1))
ans =
                     4.00000000
                     3.88902346
                     3.79016653
                     3.70062579
                     3.61848812
                     3.54238875
                     3.47131912
                     3.40451223
                     3.34137075
                     3.28142001
                     3.22427632
                     3.16962489
                     3.11720408
                     3.06679394
                     3.01820767
                     2.97128523
                     2.92588832
                     2.88189659
                     2.83920463
                     2.79771949
                     2.75735881
                     2.71804921
                     2.67972500
                     2.64232713
                     2.60580232
                     2.57010226
                     2.53518306
euler -y^{(1/2)}/(4*\log(x + 1))
                                      -y^{(1/2)}/(2*log(x + 1))
ans =
                                                    4.00000000
                                                    3.87977541
                                                    3.76795677
                                                    3.66335102
                                                    3.56500777
                                                    3.47215756
                                                    3.38416858
                                                    3.30051559
                                                    3.22075717
                                                    3.14451867
                                                    3.07147936
                                                    3.00136249
                                                    2.93392753
```

```
2.86896410
2.80628704
2.74573257
2.68715502
2.63042428
2.57542361
2.52204783
2.47020188
2.41979948
2.37076210
2.32301806
2.27650170
2.23115274
2.18691571
2.14373941
2.10157651
2.06038312
2.02011849
1.98074472
1.94222646
1.90453070
1.86762657
1.83148514
1.79607927
1.76138344
1.72737365
1.69402728
1.66132299
1.62924062
1.59776110
1.56686636
1.53653930
1.50676367
1.47752404
1.44880574
1.42059480
```

```
Using predictor correct method euler -y^{(1/2)}/(4*\log(x + 1))
```

 $-y^{(1/2)}/(2*log(x + 1))$

ans =

4.00000000 3.71146099 3.49140570 3.30992793 3.15351479 3.01488048 2.88962994

2.77489682

```
2.66870115
2.56961357
2.47656548
```

euler $-y^{(1/2)}/(4*\log(x + 1))$ $-y^{(1/2)}/(2*\log(x + 1))$

ans =

4.00000000 3.51910165 3.15009980 2.84850941 2.59246628 2.36957729 2.17211669 1.99492846 1.83439019 1.68785281 1.55331579 1.42922793 1.31435971

>>