```
Showing Euler results for u(x) for (x = 10)
u(0) = 1
v(0) = 1
               n          A(h_i) A(h_(i-1)) - A(h_i)
               5      3.9994e+08
              10    1.65507e+104   -1.65507e+104
              20    -0.000147134    1.65507e+104
              40     3.70687e-11    -0.000147134
              80     1.02637e-07      -1.026e-07
             160     9.40345e-07    -8.37708e-07
             320     2.27569e-06    -1.33534e-06
```

Needs more iterations to converge

```
Showing Euler results for v(x) for (x = 10)
u(0) = 1
v(0) = 1
               n          A(h_i) A(h_(i-1)) - A(h_i)
               5    -1.31342e+08
              10   -1.65507e+104    1.65507e+104
              20        -3.26247   -1.65507e+104
              40        -2.02006        -1.24242
              80        -1.66717       -0.352885
             160         -1.5302       -0.136966
             320        -1.46981      -0.0603903
```

Needs more iterations to converge

```
Generate Midpoint solutions at t = 10:

Showing results for v(x) and u(x) 1
              n          A(h_i) A(h_(i-1)) - A(h_i)
              5   3.36317e+131
             10    -0.00617715   3.36317e+131
             20    1.19685e-05    -0.00618912  -5.4
             40    5.99556e-06    5.97294e-06
             80    5.21087e-06     7.8469e-07
            160    5.00133e-06    2.09538e-07
            320    4.94528e-06    5.60494e-08
            640     4.9307e-06    1.45833e-08

Showing results for v(x) and u(x) 2
              n          A(h_i) A(h_(i-1)) - A(h_i)
              5  -2.68189e+131
             10        -1.68097  -2.68189e+131
             20        -1.50621      -0.174758   1.5
             40        -1.41951     -0.0867014
             80        -1.41348    -0.00603049
            160        -1.41378     0.0002941
            320        -1.41407    0.000296484
            640        -1.41417    0.000101868
```

```
Showing RK4 results for u(x) for (x = 10)
u(0) = 1
v(0) = 1
               n          A(h_i) A(h_(i-1)) - A(h_i)
               5             nan
              10     1.55633e-05
              20     5.25476e-06     1.03086e-05
              40     4.93971e-06     3.15046e-07
              80     4.92636e-06     1.33481e-08
             160     4.92575e-06     6.15191e-10
             320     4.92572e-06     3.13958e-11
```

```
Showing RK4 results for v(x) for (x = 10)
u(0) = 1
v(0) = 1
               n          A(h_i) A(h_(i-1)) - A(h_i)
               5             nan
              10         -1.4056
              20        -1.41202      0.00641511
              40        -1.41415      0.00213369
              80        -1.41421     6.04743e-05
             160        -1.41421     3.59842e-07
             320        -1.41421    -9.30521e-08
```

```
Generate Trapezoidal solutions at t = 10:

Showing results for v(x) and u(x) 1
              n          A(h_i) A(h_(i-1)) - A(h_i)
              5     -4.2434e-11
             10      4.0558e-09    -4.09823e-09
             20     1.07694e-06    -1.07288e-06     0
             40     2.88649e-06    -1.80955e-06
             80     3.95162e-06    -1.06513e-06
            160     4.45424e-06    -5.02624e-07
            320     4.70012e-06    -2.45871e-07
            640     4.81486e-06    -1.14743e-07

Showing results for v(x) and u(x) 2
              n          A(h_i) A(h_(i-1)) - A(h_i)
              5              -2
             10        -1.58114       -0.418861
             20        -1.45774       -0.123401
             40        -1.42522      -0.0325187
             80        -1.41697     -0.00824628
            160         -1.4149      -0.0020691
            320        -1.41439     -0.00051771
            640        -1.41426    -0.000129495
```