Console

A=

```
  2.  - 1.    0.
- 1.    2.  - 1.
  0.  - 1.    2.
```

V=

```
  2.  - 1.
- 1.    2.
```

```
         2
  3 - 4x + x
```

=0

a(1) = 3.000000
a(2) = 1.000000
a = 3.000000

R=

```
- 1.4142136  - 1.4142136  - 0.7071068
  0          - 0.7071068  - 1.2071068
  0          - 0.7071068  - 0.2071068
```

Q=

```
  0.7071068  - 0.5          0.5
  0.7071068    0.5        - 0.5
  0            0.7071068    0.7071068
```

Q*R=

```
- 1.  - 1.  - 2.776D-17
- 1.  - 1.  - 1.
  0   - 1.  - 1.
```

A=

```
- 2.    - 0.5        - 0.5
- 0.5  - 1.2071068   - 0.5
- 0.5  - 0.5           0.2071068
```

V=

```
     -  2.       -  0.5
    - 0.5  - 1.2071068


                  2
     2.1642136 + 3.2071068x + x

     =0

a(1) = -2.241652
a(2) = -0.965455
a = -2.241652

   R=

     0.6918317  - 0.0498204  - 2.1035448
   - 0.1228971    0.5448562  - 1.1560306
     0.2542852  - 1.1273569    0.8573868

   Q=

     0.1893532    0.6401609    0.7445397
   - 0.3917889    0.7445397  - 0.5405201
   - 0.9003593  - 0.1893532    0.3917889

   Q*R=

     0.2416521  - 0.5         - 0.5
   - 0.5          1.0345453  - 0.5
   - 0.5        - 0.5          2.4487588

   A=

     2.0444657    0.8041033  - 0.2821205
     0.8041033    0.5458913  - 0.8389275
   - 0.2821205  - 0.8389275    1.1345992

   V=

     2.0444657    0.8041033
     0.8041033    0.5458913


                  2
     0.4694740 - 2.590357x + x

     =0

a(1) = 2.394275
a(2) = 0.196082
a = 2.394275
```

R=

```
- 0.5054649    2.0956801    1.3019977
- 0.3182754    0.2530995  - 0.7751655
- 0.7012466    0.5576464  - 0.2722046
```

Q=

```
  0.3105154    0.9385074  - 0.1509440
- 0.7137785    0.1253362  - 0.6890654
- 0.6277742    0.3217060    0.7088052
```

Q*R=

```
- 0.3498094    0.8041033  - 0.2821205
  0.8041033  - 1.8483838  - 0.8389275
- 0.2821205  - 0.8389275  - 1.259676
```

A=

```
- 2.4701667    0.2071425  - 0.4449009
  0.2071425  - 0.5163567  - 0.6758016
- 0.4449009  - 0.6758016  - 0.4713459
```

V=

```
- 2.4701667    0.2071425
  0.2071425  - 0.5163567
```

$$1.232579 + 2.9865233x + x^2$$

=0

a(1) = -2.491886
a(2) = -0.494637
a = -2.491886

R=

```
  0.4545276    0.7718551  - 2.0531726
- 0.0603118  - 0.6314976    0.5523719
  0.1763058    1.8460184  - 0.4653992
```

Q=

```
  0.0050849  - 0.9747238  - 0.2233554
  0.0484954  - 0.2228551    0.9736446
```

- 0.9988105   - 0.0157826   0.0461364

  Q*R=

   0.0217198   0.2071425 - 0.4449009
   0.2071425   1.9755297 - 0.6758016
 - 0.4449009 - 0.6758016   2.0205405

  A=

   2.0904729 - 0.5826462   0.5552654
 - 0.5826462   0.1908019 - 0.5758988
   0.5552654 - 0.5758988   1.7365152

  V=

   2.0904729 - 0.5826462
 - 0.5826462   0.1908019

                  2
   0.0593896 - 2.2812748x + x

  =0

a(1) = 2.254937
a(2) = 0.026338
a = 2.254937

  R=

   0.3604684 - 1.1612968 - 0.6116401
   0.1983772   0.5087035 - 0.6010379
   0.7110231   1.823294   0.4164018

  Q=

   0.0771491 - 0.9969895   0.0077436
   0.2733152   0.0136792 - 0.9618273
   0.9588257   0.0763205   0.2735477

  Q*R=

 - 0.1644643 - 0.5826462   0.5552654
 - 0.5826462 - 2.0641353 - 0.5758988
   0.5552654 - 0.5758988 - 0.518422

  A=

 - 0.8760465 - 0.4219496   0.9524455

```
- 0.4219496  - 0.2366928  - 0.6521613
  0.9524455  - 0.6521613  - 1.6342823
```

V=

```
- 0.2366928  - 0.6521613
- 0.6521613  - 1.6342823
```

$$- 0.0384915 + 1.8709751x + x^2$$

=0

a(1) = -1.891327
a(2) = 0.020352

l1=

2.9156739

l2=

1.0243472

l3=

2.9360255

Note : Values of V varies in each step resulting in different results due to error in bo
lation