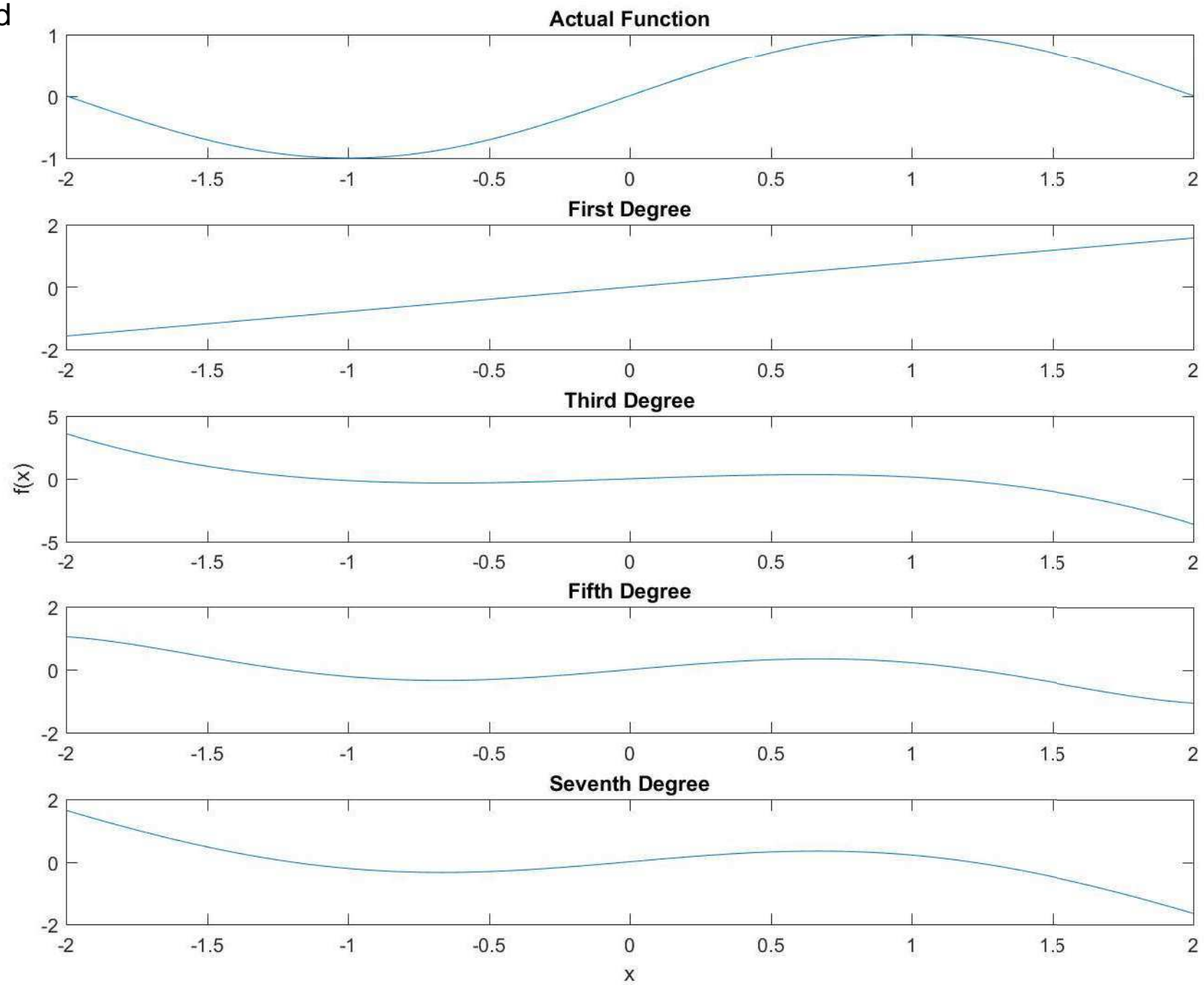


1.d



```
>> newtMeth
```

```
The root is approximated as...
```

```
x =
```

```
0.3296
```

```
...and the order of convergence is apparently one, since...
```

```
r =
```

```
1.0784
```

```
...which implies the multiplicity of this root is two or higher.
```

```
Further, since the order of conv. is one, this converges as slowly  
as bisection.
```

```
>>
```

```
>> secant
```

i = 0	r = NaN	x0 = -2.000000000000000e+00	x1 = -3.000000000000000e+00	x2 = -2.833333333333334e+00
i = 1	r = NaN	x0 = -3.000000000000000e+00	x1 = -2.833333333333334e+00	x2 = -2.907928388746803e+00
i = 2	r = NaN	x0 = -2.833333333333334e+00	x1 = -2.907928388746803e+00	x2 = -2.912449640422373e+00
i = 3	r = NaN	x0 = -2.907928388746803e+00	x1 = -2.912449640422373e+00	x2 = -2.912228585591192e+00
i = 4	r = NaN	x0 = -2.912449640422373e+00	x1 = -2.912228585591192e+00	x2 = -2.912229178402829e+00
i = 5	r = NaN	x0 = -2.912228585591192e+00	x1 = -2.912229178402829e+00	x2 = -2.912229178484397e+00
i = 6	r = NaN	x0 = -2.912229178402829e+00	x1 = -2.912229178484397e+00	x2 = -2.912229178484397e+00
i = 7	r = NaN	x0 = -2.912229178484397e+00	x1 = -2.912229178484397e+00	x2 = -2.912229178484397e+00
i = 8	r = NaN	x0 = -2.912229178484397e+00	x1 = -2.912229178484397e+00	x2 = NaN
i = 9	r = NaN	x0 = -2.912229178484397e+00	x1 = NaN	x2 = NaN
i = 10	r = NaN	x0 = NaN	x1 = NaN	x2 = NaN

```
Secant method reaches an approximation accurate to within near  
10^-11 in 6 steps with 6 function evaluations
```

```
>>
```

```
>> U = [1,2,-1;0,3,-1;0,0,2]
```

```
U =
```

```
    1    2   -1  
    0    3   -1  
    0    0    2
```

```
>> b = [-1;0;1]
```

```
b =
```

```
   -1  
    0  
    1
```

```
>> backwardSub(U, b)
```

```
ans =
```

```
 -0.8333  
  0.1667  
  0.5000
```

```
>>
```

```
>> L = [1,0,0;2,1,0;3,4,1]
```

```
b = [-1;0;1]
```

```
L =
```

```
     1     0     0
     2     1     0
     3     4     1
```

```
b =
```

```
    -1
     0
     1
```

```
>> forwardSub(L, b)
```

```
ans =
```

```
    -1
     2
    -4
```

```
>>
```