Answer For Hw2

Problem 1 Solution

for_loop

```
method1:
   10.7461
              9.6502
                         9.0870
   11.3660
             10.3219
                         9.8011
   12.0017
             11.0109
                        10.5322
   12.6524
             11.7158
                        11.2784
   13.3174
             12.4352
                        12.0376
   13.9959
             13.1679
                        12.8083
   14.6870
             13.9126
                        13.5889
   15.3900
             14.6680
                        14.3780
   16.1042
             15.4331
                        15.1743
   16.8288
             16.2068
                        15.9768
   17.5630
             16.9882
                        16.7845
```

vectorize

```
method2:
   10.7461
              9.6502
                         9.0870
   11.3660
             10.3219
                         9.8011
   12.0017
             11.0109
                        10.5322
             11.7158
   12.6524
                        11.2784
   13.3174
             12.4352
                        12.0376
   13.9959
             13.1679
                        12.8083
   14.6870
             13.9126
                        13.5889
   15.3900
             14.6680
                        14.3780
   16.1042
             15.4331
                        15.1743
   16.8288
             16.2068
                        15.9768
   17.5630
             16.9882
                        16.7845
```

Problem 2 Solution

• gcd:

In:(0,2) Out:2

In:(0,0)
out:0

In:(12,4)
Out:4

• lcm :

In:(12,90)
Out:180

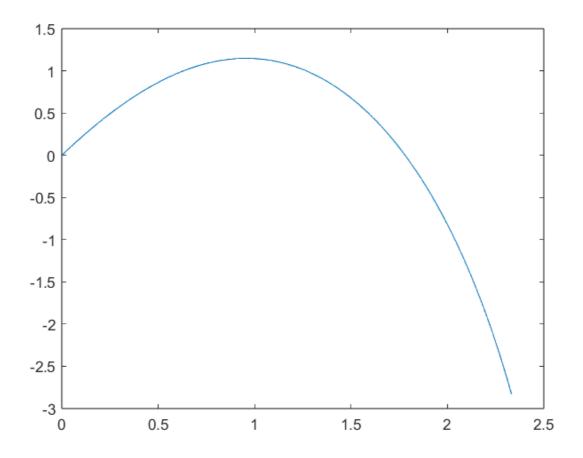
Problem 3 Solution

Narcissistic number:

153 370 371 407

Problem 4 Solution

• plot:



Problem 5 Solution

• cleanup:

0 1 5 0000				2 4000	2 2222	0.0000	
Out:5.0000	NaN	NaN	NaN	3.4000	2.0000	8.0000	
NaN							

• nearZero :

Out:8

• Nearest:

Out:1 3