```
In []: # Initialize Otter
    import otter
    grader = otter.Notebook()

In [1]: import matplotlib.pyplot as plt
    import numpy as np
```

Question 1. Assign x to the smallest prime number.

```
In [22]: x = 2 # SOLUTION
In []: grader.check("q1")
```

Question 2. Visualize the answer

```
In [28]: | ## solution ##
           plt.plot(x); # SOLUTION NO PROMPT
           """ # BEGIN PROMPT
           plt.plot(...);
           """ # END PROMPT
Out[28]: ' # BEGIN PROMPT\nplt.plot(...);\n'
           2.100 -
           2.075
           2.050
           2.025
           2.000
           1.975
           1.950
           1.925
           1.900
                     -0.04
                             -0.02
                                      0.00
                                               0.02
                                                       0.04
```

This cell is not part of a question.

```
In [29]: y = 3
```

Question 3. Define square and assign nine to 3 squared.

Question 4. What does equilateral mean?

Type your answer here, replacing this text.

SOLUTION: Having equal side lengths.

```
In [14]: # this isn't part of a question # it's here to make sure that we get a MD cell above to close the export # of question 4
```

Question 5. Approximate the area and circumference of a circle with radius 3.

```
In [15]: pi = 3.14
    if True:
        # BEGIN SOLUTION
        radius = 3
        area = radius * pi * pi
        # END SOLUTION
        print('A circle with radius', radius, 'has area', area)

def circumference(r):
        # BEGIN SOLUTION NO PROMPT
        return 2 * pi * r
        # END SOLUTION
        """ # BEGIN PROMPT
        # Next, define a circumference function.
        pass
        """; # END PROMPT
```

A circle with radius 3 has area 29.5788

```
In [16]: # This question has no tests.
```

Question 6. Write something

This question has a custom prompt below, so that prompt should be in the output. It also has no solution!

Write your thing here.

SOLUTION: some thing

Question 7: What is the answer?

Type your answer here, replacing this text.

```
SOLUTION: 42
```

Question 8: Test intercell seeding by generating 10 random N(4,2) numbers.

You're done!

```
In [ ]:
```

Submission

Make sure you have run all cells in your notebook in order before running the cell below, so that all images/graphs appear in the output. The cell below will generate a zipfile for you to submit. **Please save before exporting!**

```
In [ ]: # Save your notebook first, then run this cell to export your submission.
grader.export()
```