

## CC 2.3.1: Introduction to Matplotlib and Pyplot

### Introduction to Matplotlib and Pyplot: Question 1

1/1 point (graded)

What does `plt.show()` do?

Create a plot, and print if desired.

Return a plot, and print if desired.

Show a plot that is already created.

correct

### Introduction to Matplotlib and Pyplot: Question 2

1/1 point (graded)

What does `plt.plot([0,1,2],[0,1,4],"rd-")` do?

A plot of a smooth curve, and red dots at the endpoints.

A plot of two connected lines, and red dots at the junctures.

A plot of two connected lines, with red diamonds at the junctures.

correct

This code contains an error.

## CC 2.3.3: Plotting Using Logarithmic Axes

### Plotting Using Logarithmic Axes: Question 1

1/1 point (graded)

Consider the following code:

```
x = np.logspace(0,1,10)
y = x**2
plt.loglog(x,y,"bo-")
```

What does this return?

A logarithmic plot that looks like a quadratic function with logarithmic spacing

A logarithmic plot that looks like a quadratic function with equal spacing

A logarithmic plot that looks like a straight line with logarithmic spacing

A logarithmic plot that looks like a straight line with equal spacing

correct

## CC 2.3.4: Generating Histograms

Generating Histograms: Question 1

1/1 point (graded)

Which will have wider

bins, `np.linspace(-5,5,21)` or `np.linspace(-5,5,201)`?

`np.linspace(-5,5,21)`

correct

`np.linspace(-5,5,201)`

## Explanation

The third argument of `np.linspace` is the number of bins. As this number increases, the width of each bin decreases!

### Generating Histograms: Question 2

1/1 point (graded)

What will `plt.subplot(333)` do?

Create a blank plot that fills the figure.

Create a plot with three points at location (3,3).

Create a smaller subplot in the top left of the figure.

Create a smaller subplot in the top right of the figure.  
correct

## Explanation

The first integer describes the number of subplot rows, the second integer describes the number of subplot columns, and the third integer describes the location index of the subplot to be created, where indices are laid out along the rows and columns in the same order as reading Latin characters on a page.

### Generating Histograms: Question 3

1/1 point (graded)

Will `plt.subplot(3, 3, 3)` create a different plot from `plt.subplot(333)`?

Yes

No  
correct

### **Explanation**

The triple-digit integer in the first argument of `plt.subplot` works the same as three single-digit function arguments.