

MTH 337, Sample Quiz 2

You will have **15 minutes** to take the actual quiz.

1. Identify and correct the error in the following code:

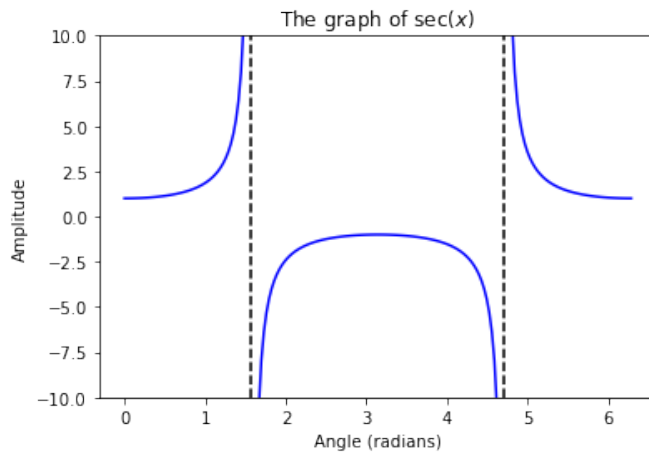
```
for i in range(100)
    if i % 3 == 2
        print(i)
```

2. Write a function that takes as input an integer n and checks if it is a solution to the congruence

$$n^2 + 5n + 6 \equiv 0 \pmod{k}$$

for all positive integers $k < n$.

3. Write a command to rework the x -axis scaling in the following plot.



4. What is the purpose of the command `plt.show()`?