Assignment 0: Setup & Submission Practice

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This assignment will help me learn how to submit assignments as a `pdf` using Quarto.

Code cells can be created using three backticks followed by `{python}`.

C1. Hello World

```python
print("Hello World!")
```

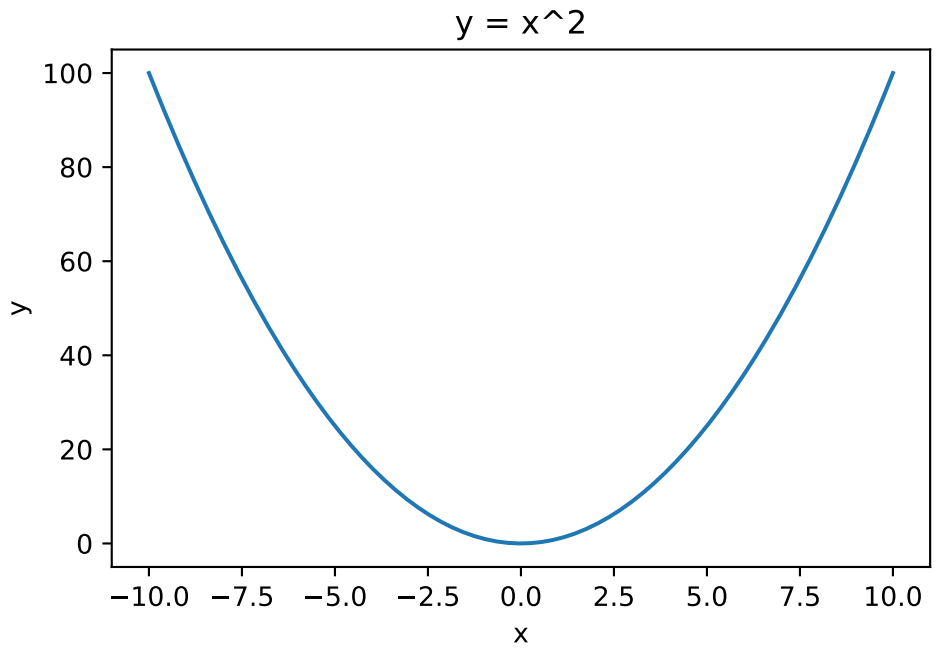
```
Hello World!
```

C2. Plot y = x^2

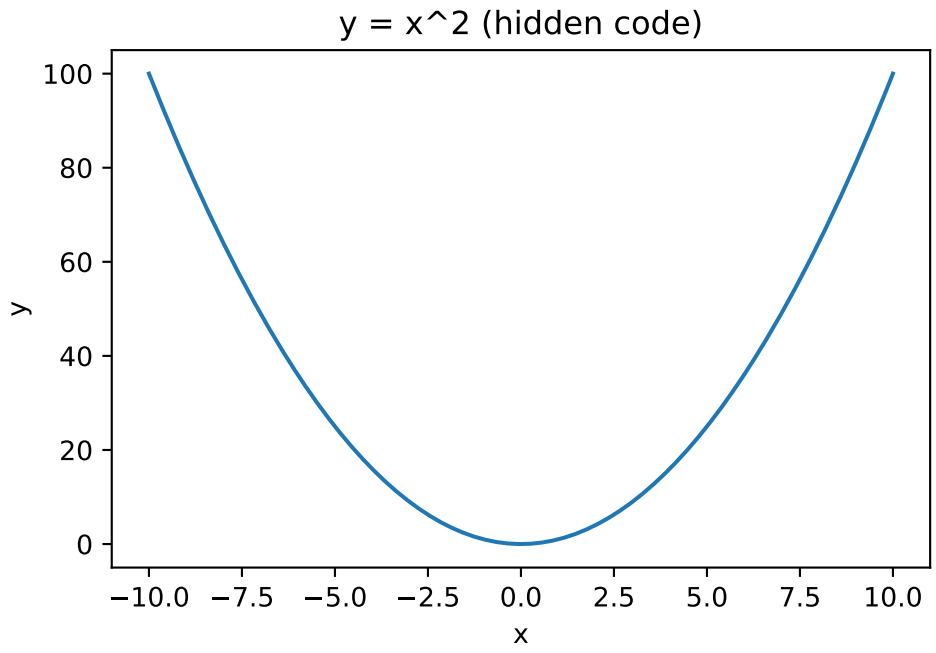
```python
import numpy as np
import matplotlib.pyplot as plt

x = np.linspace(-10, 10, 200)
y = x**2

plt.plot(x, y)
plt.xlabel("x")
plt.ylabel("y")
plt.title("y = x^2")
plt.show()
```



C3. Plot y = x^2 (code hidden)



Part D: LaTeX practice (math + formatting)

D1. Inline math

The mean of the numbers $x_1, x_2, \ldots, x_n$ is given by $\frac{1}{n}\sum_{i=1}^{n} x_i$.

D2. Display math

The quadratic formula is given by:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$

D3. Aligned equations

$$\begin{aligned}(x+1)^2 &= (x+1)(x+1) \\ &= x^2 + 2x + 1\end{aligned}$$

D4. LaTeX symbols

The symbol ∇ denotes the gradient operator, which represents the vector of partial derivatives of a scalar-valued function.