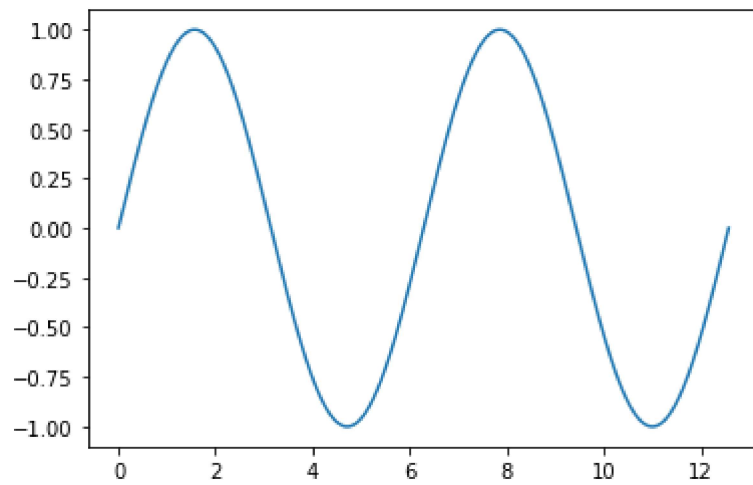```
import numpy as np
import matplotlib.pyplot as plt
X = np.linspace(0, 4*np.pi, 1000)
Y = np.sin(X)
fig, ax = plt.subplots()
ax.plot(X, Y)
fig.show()
```

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