What you'll Learn About
- The basic waves revisited/ Sinusoids and Transformations
- Modeling

The graph of $y = \sin x$

- Minimum: $\frac{3}{4}$ of period
- Period: $2\pi$
- Amplitude: 1

The graph of $y = \cos x$

- Maximum: $\frac{1}{4}$ of period

1. $y = 3\cos x$
2. $y = -2\cos x$
Find the amplitude of the function and use the language of transformations to describe how the graph of the function is related to the graph of \( y = \sin x \)

A) \( y = 3 \sin x \)

B) \( y = \frac{3}{4} \sin x \)

C) \( y = -5 \sin x \)

Find the period of the function and use the language of transformations to describe how the graph of the function is related to the graph of \( y = \cos x \)

A) \( y = \cos (2x) \)

B) \( y = \cos \frac{x}{2} \)

C) \( y = \cos \left( -\frac{3x}{4} \right) \)