

Name: _____

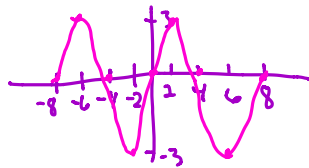
Amplitude and Period

Sketch two complete cycles of each graph. Label all critical points.

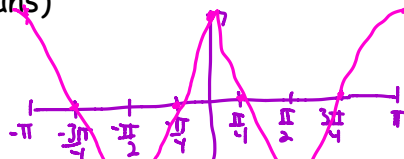
1. $y = 3 \sin \frac{\pi}{4} x$ (radians)

$$\text{Per} = 2\pi \cdot \frac{4}{\pi} = 8$$

$$\text{CP} = \frac{8}{4} = 2$$



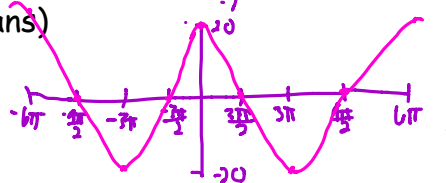
2. $y = 7 \cos 2x$ (radians)



3. $y = 20 \cos \frac{1}{3} x$ (radians)

$$\text{Per} = 2\pi \cdot \frac{3}{1} = 6\pi$$

$$\text{CP} = \frac{6\pi}{4} = \frac{3\pi}{2}$$



4. $y = 8 \sin \frac{\pi}{5} x$ (radians)

