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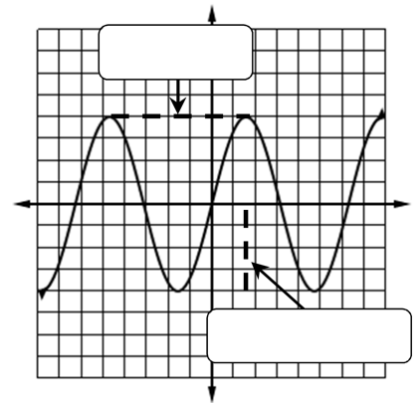
GRAPHING SINE

CO: I can graph a sine function.

Vocabulary:

*Changing the
Amplitude & Period*

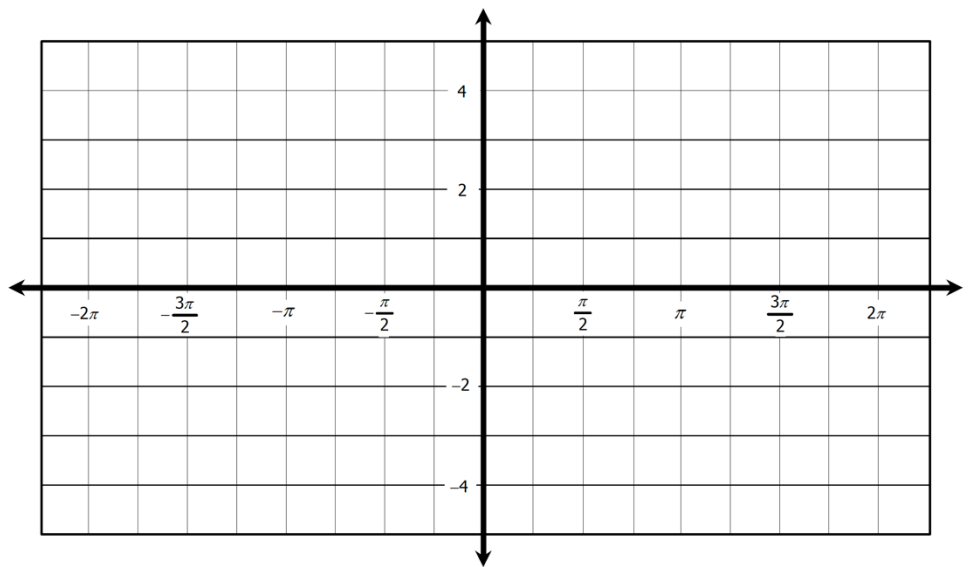
- Given $y = a \cdot \sin b\theta$, where θ is in radians: the amplitude is _____ and the period is _____.



SINE

$(y = \sin \theta)$

- Amplitude:
- Period:



Examples: Identify the amplitude and period of each function, then graph.

1. $y = 3 \cdot \sin 2\theta$

Amplitude:

Period:

2. $y = \frac{3}{2} \cdot \sin \frac{1}{3}\theta$

Amplitude:

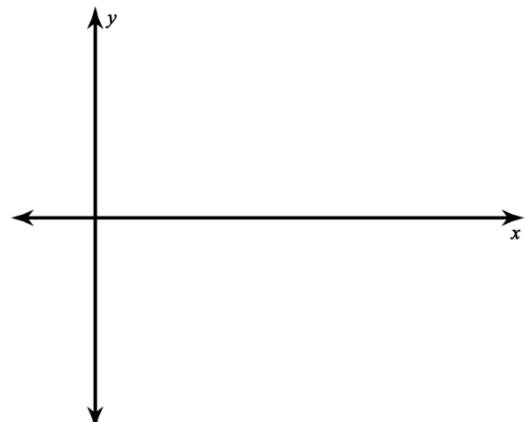
Period:

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3. $y = 4 \cdot \sin 3\theta$

Amplitude:

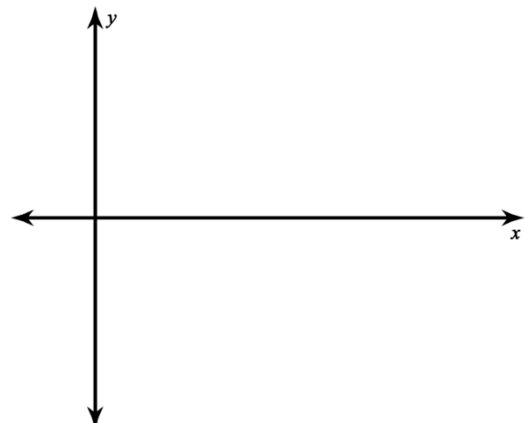
Period:



4. $y = 5 \cdot \sin \frac{1}{2}\theta$

Amplitude:

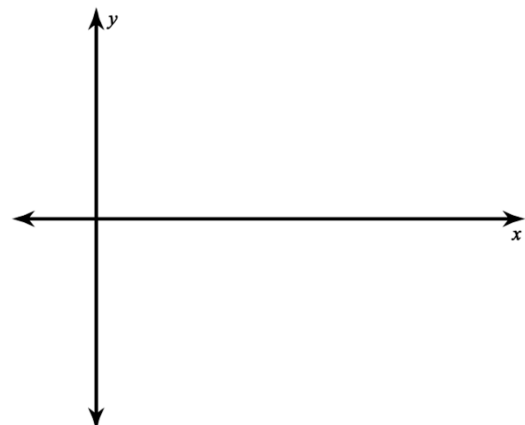
Period:



5. $y = \sin 4\theta$

Amplitude:

Period:



6. $y = \frac{5}{2} \cdot \sin \theta$

Amplitude:

Period:

