

05/22/2019

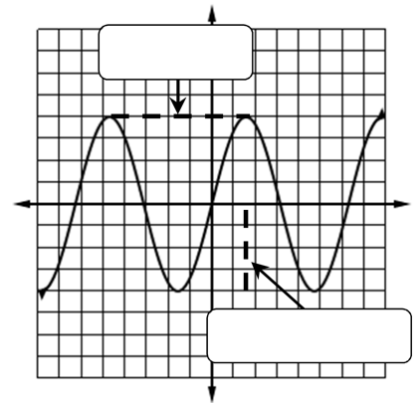
GRAPHING COSINE

CO: I can graph a cosine function.

Vocabulary:

*Changing the
Amplitude & Period*

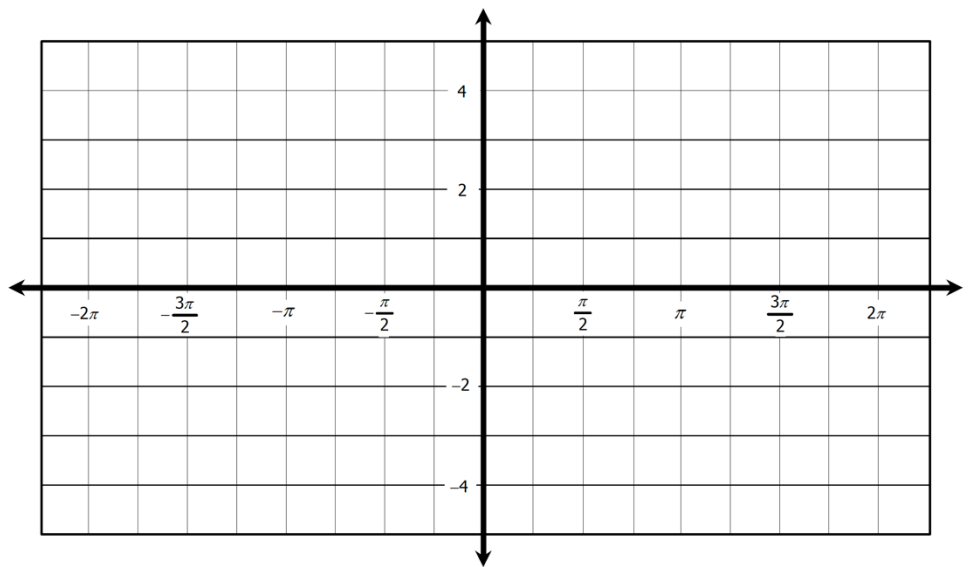
- Given $y = a \cdot \cos b\theta$, where θ is in radians: the amplitude is _____ and the period is _____.



COSINE

$(y = \cos \theta)$

- Amplitude:
- Period:



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

1. $y = \cos \frac{1}{2} \theta$

Amplitude:

Period:

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

Amplitude:

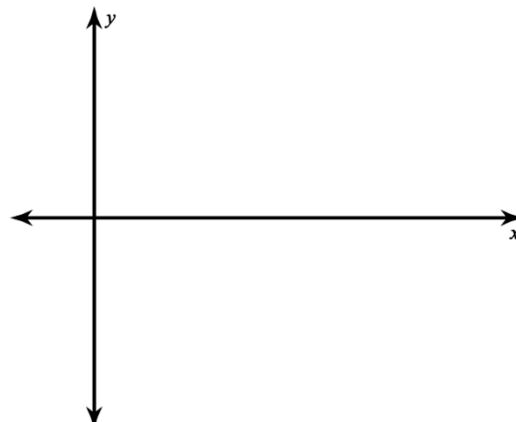
Period:

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3. $y = \cos \frac{3}{4} \theta$

Amplitude:

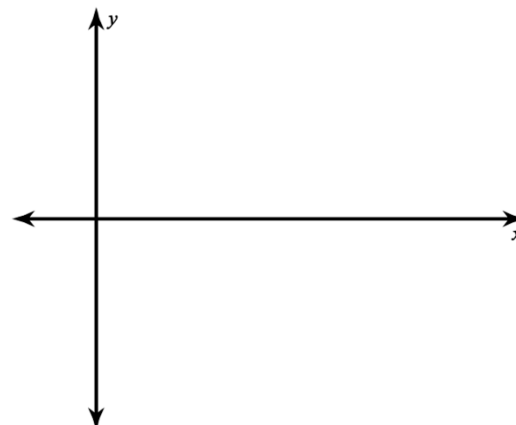
Period:



4. $y = 2 \cdot \cos \frac{3}{2} \theta$

Amplitude:

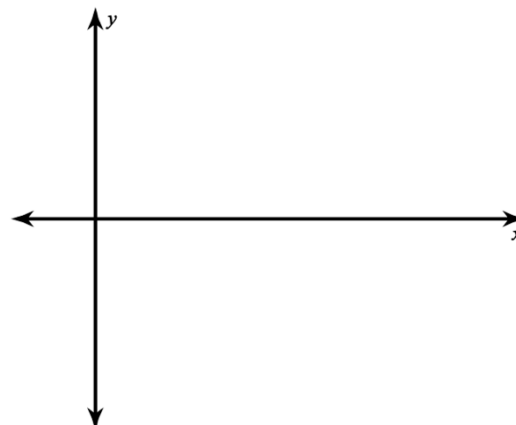
Period:



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

Amplitude:

Period:



6. $y = 4 \cdot \cos 3\theta$

Amplitude:

Period:

