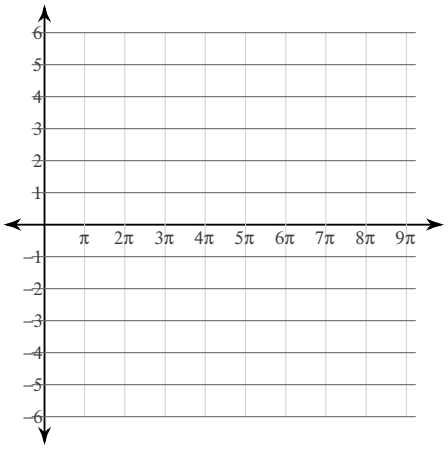
Pre-Calculus Name_____

Graphing Sine and Cosine Amplitude and Period

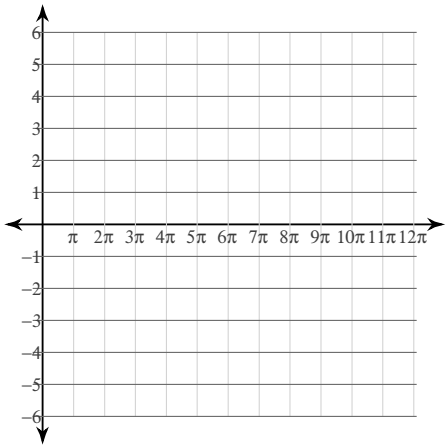
Date_____ Period____

Using radians, find the amplitude and period of each function. Then graph.

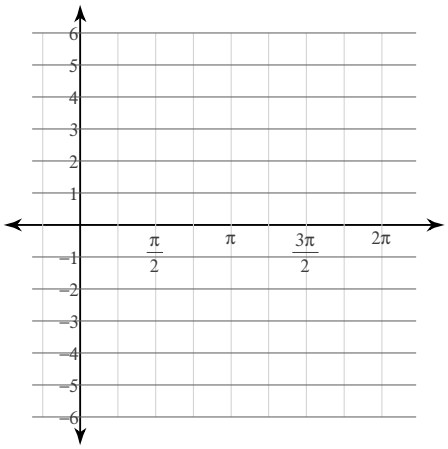
1) $y = 3\cos\frac{\theta}{3}$



2) $y = \frac{1}{2} \cdot \cos\frac{\theta}{4}$

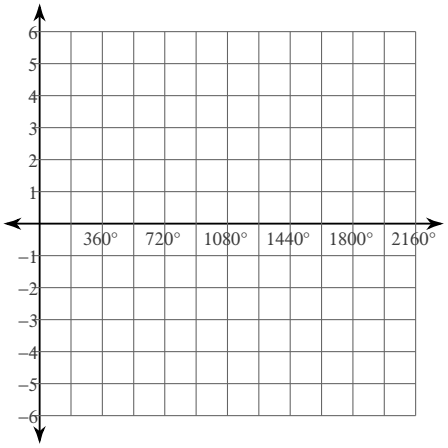


3) $y = 3\sin 4\theta$

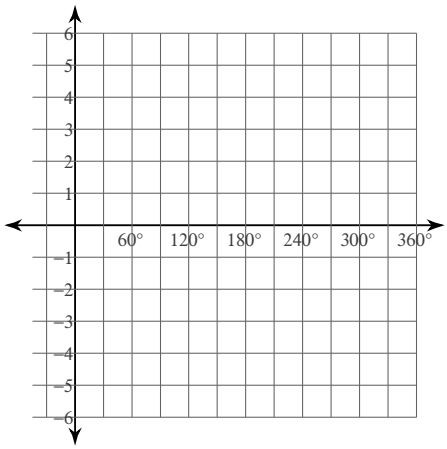


Using degrees, find the amplitude and period of each function. Then graph.

4) $y = \frac{1}{2} \cdot \cos \frac{\theta}{4}$



5) $y = 4\sin 2\theta$



Pre-Calculus Name_____

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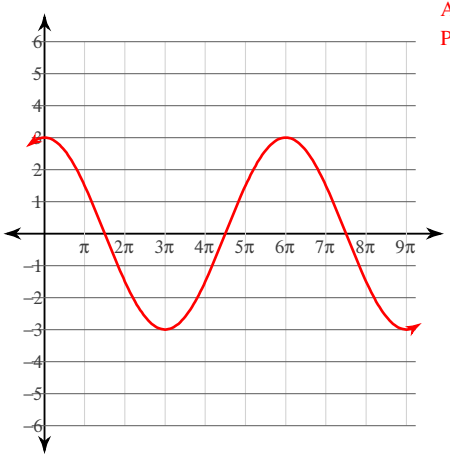
Date_____ Period____

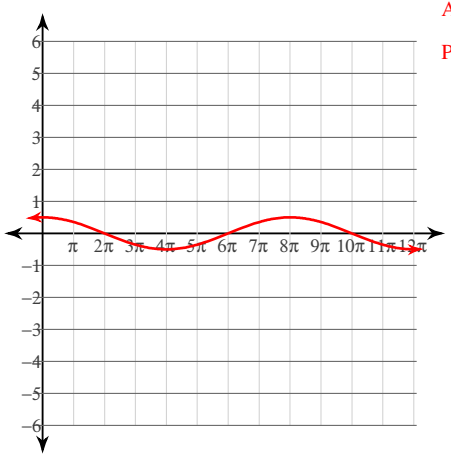
Using radians, find the amplitude and period of each function. Then graph.

1) $y = 3\cos\frac{\theta}{3}$



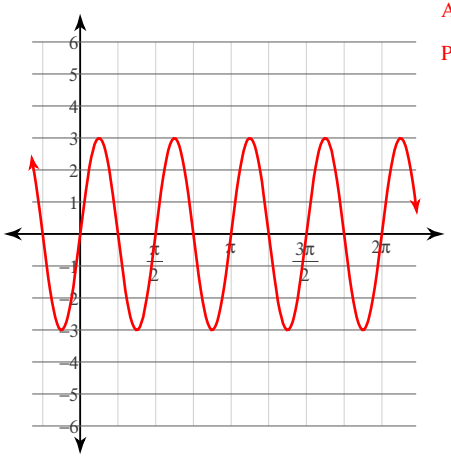
Amplitude: 3
Period: 6π

2) $y = \frac{1}{2} \cdot \cos\frac{\theta}{4}$



Amplitude: $\frac{1}{2}$
Period: 8π

3) $y = 3\sin 4\theta$



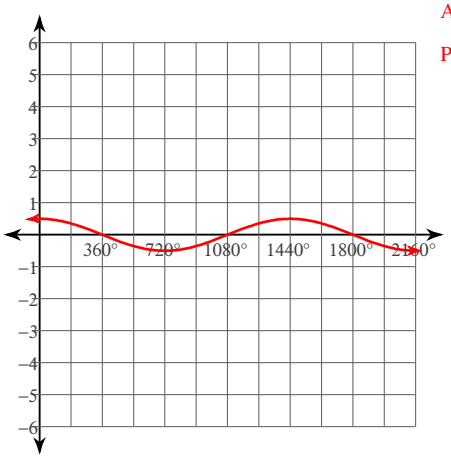
Amplitude: 3
Period: $\frac{\pi}{2}$

Using degrees, find the amplitude and period of each function. Then graph.

4) $y = \frac{1}{2} \cdot \cos \frac{\theta}{4}$

Amplitude: $\frac{1}{2}$

Period: 1440°



5) $y = 4\sin 2\theta$

Amplitude: 4

Period: 180°