

## Unit 5.2 Graph Amplitude &amp; Period change (Sin &amp; Cos) PRACTICE

Period \_\_\_\_\_

**Find the amplitude, the period in radians, the minimum and maximum values, and the transformations required to obtain the graph starting with a basic trig function.**

1)  $y = 7\cos \frac{\theta}{8}$

Amp:

Period:

Min:

Max:

Transformation:

2)  $y = 4\cos 2\theta$

Amp:

Period:

Min:

Max:

Transformation:

3)  $y = \frac{1}{4} \cdot \sin \theta$

Amp:

Period:

Min:

Max:

Transformation:

4)  $y = 3\cos 7\theta$

Amp:

Period:

Min:

Max:

Transformation:

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

Amp:

Period:

Min:

Max:

Transformation:

6)  $y = 6\cos 7\theta$

Amp:

Period:

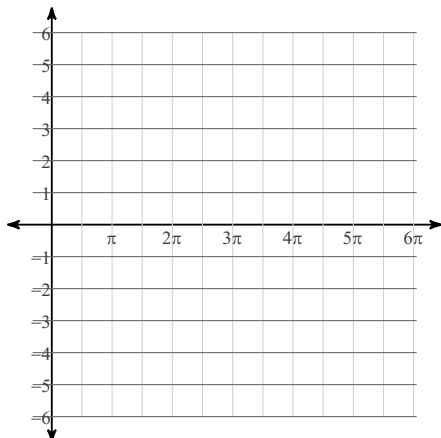
Min:

Max:

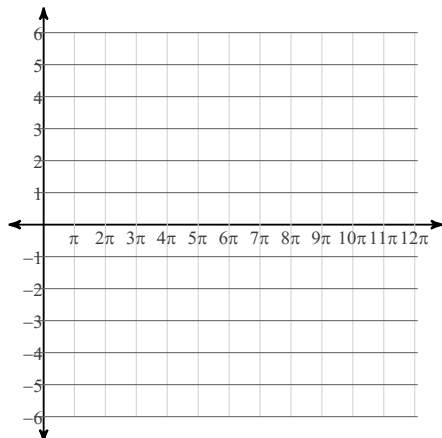
Transformation:

Graph each function using radians.

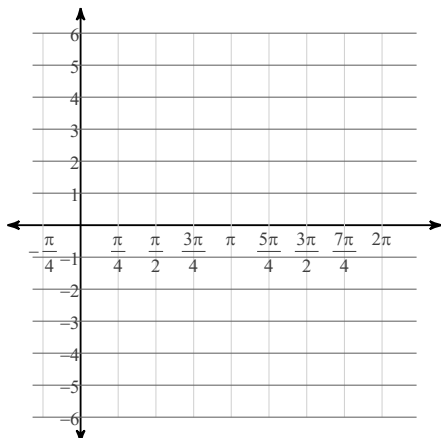
7)  $y = \cos \frac{\theta}{2}$



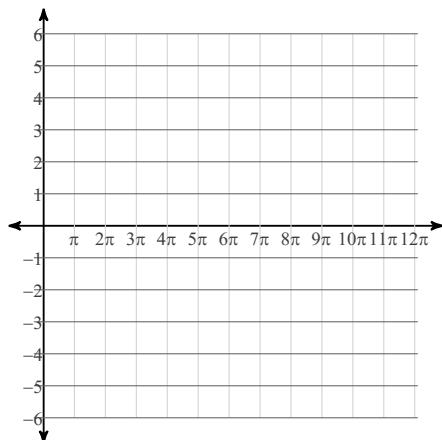
8)  $y = \frac{1}{2} \cdot \cos \frac{\theta}{4}$



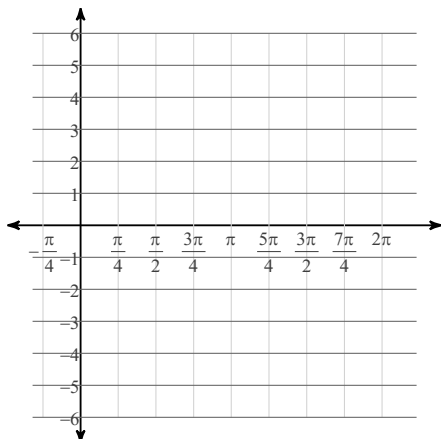
9)  $y = 3\sin 4\theta$



10)  $y = 3\cos \frac{\theta}{4}$



11)  $y = \sin 3\theta$



12)  $y = 3\cos 2\theta$

