

PRACTICE Quiz 5.2 Graph Amplitude & Period change (Sin & Cos)

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) $y = \frac{1}{10} \cdot \cos 5\theta$

Amp:

Period:

Min:

Max:

Transformation:

2) $y = \frac{1}{8} \cdot \sin \frac{\theta}{3}$

Amp:

Period:

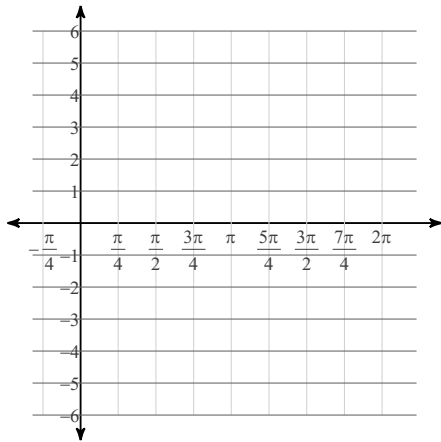
Min:

Max:

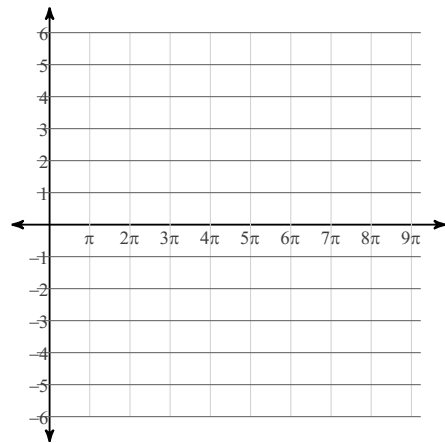
Transformation:

Graph each function using radians.

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



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



PRACTICE Quiz 5.2 Graph Amplitude & Period change (Sin & Cos)

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) $y = \frac{1}{10} \cdot \cos 5\theta$

Amp:

Period:

Min:

Max:

Transformation:

Amplitude: $\frac{1}{10}$

Period: $\frac{2\pi}{5}$

Min: $-\frac{1}{10}$

Max: $\frac{1}{10}$

Transformations:

Starting with $\cos \theta$,
vertically shrink by

$\frac{1}{10}$, horizontally

shrink by $\frac{1}{5}$

2) $y = \frac{1}{8} \cdot \sin \frac{\theta}{3}$

Amp:

Period:

Min:

Max:

Transformation:

Amplitude: $\frac{1}{8}$

Period: 6π

Min: $-\frac{1}{8}$

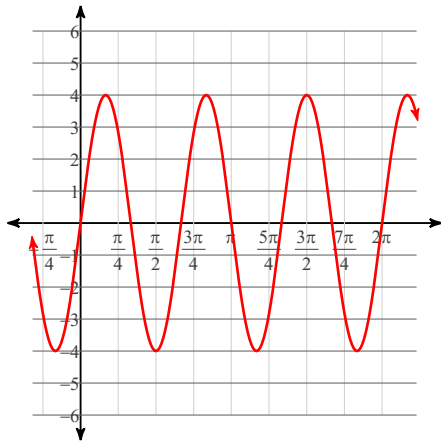
Max: $\frac{1}{8}$

Transformations:

Starting with $\sin \theta$,vertically shrink by $\frac{1}{8}$,horizontally stretch
by 3

Graph each function using radians.

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



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

