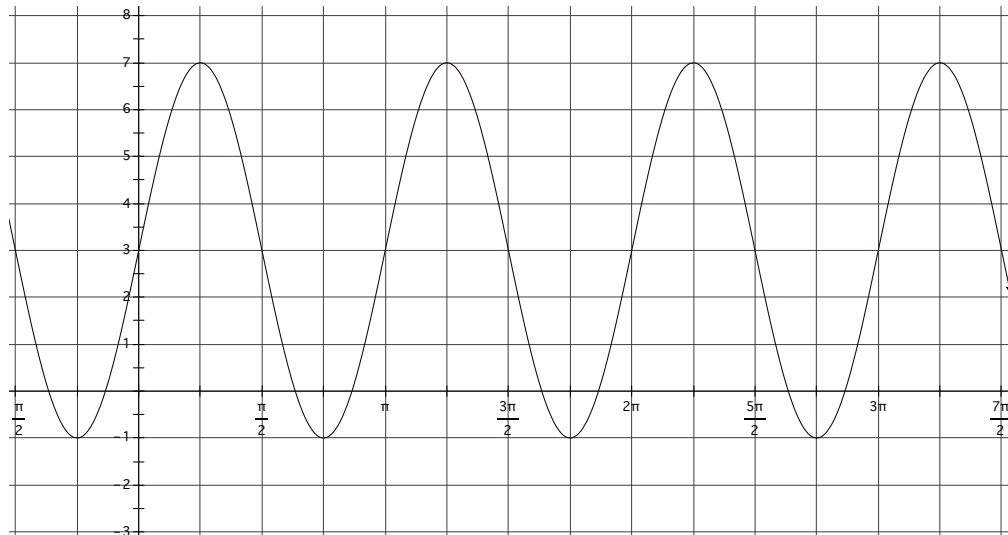
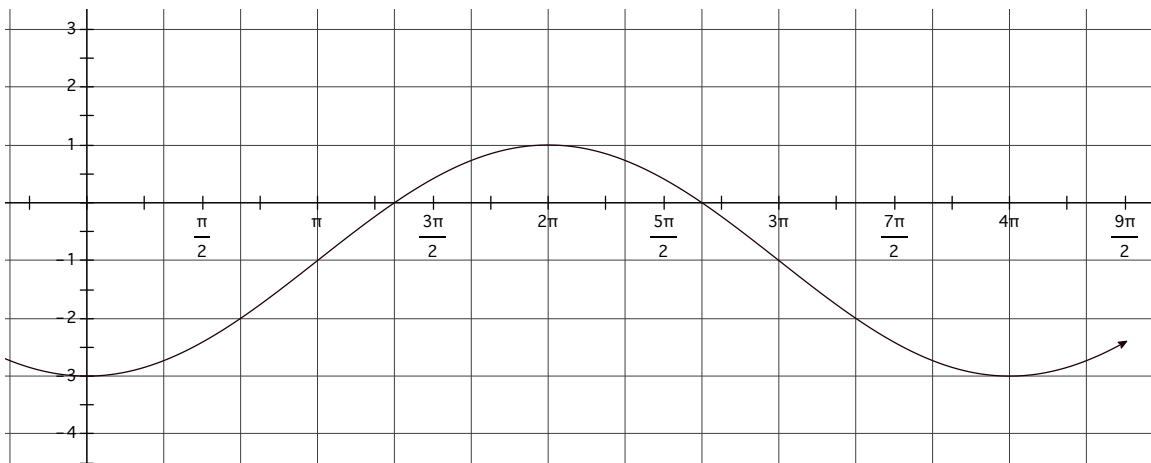


1. Write two equations for the graph. One equation should use cosine, the other should use sine.



2. Write two equations for the graph. One equation should use cosine, the other should use sine.

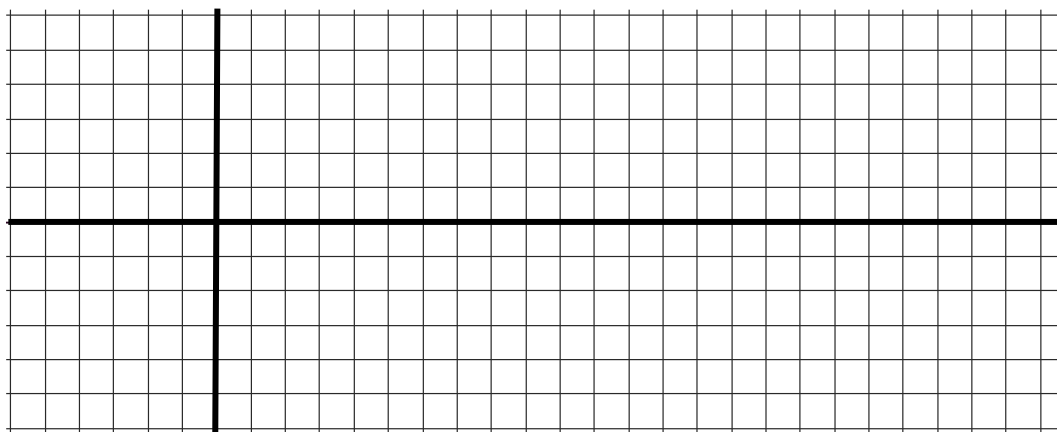


3. Graph  $f(\theta) = -3\sin 2\left(\theta - \frac{\pi}{4}\right)$ .

Amplitude: \_\_\_\_\_ Period: \_\_\_\_\_

Vert. Shift: \_\_\_\_\_ Increment: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_ Key Values: \_\_\_\_\_

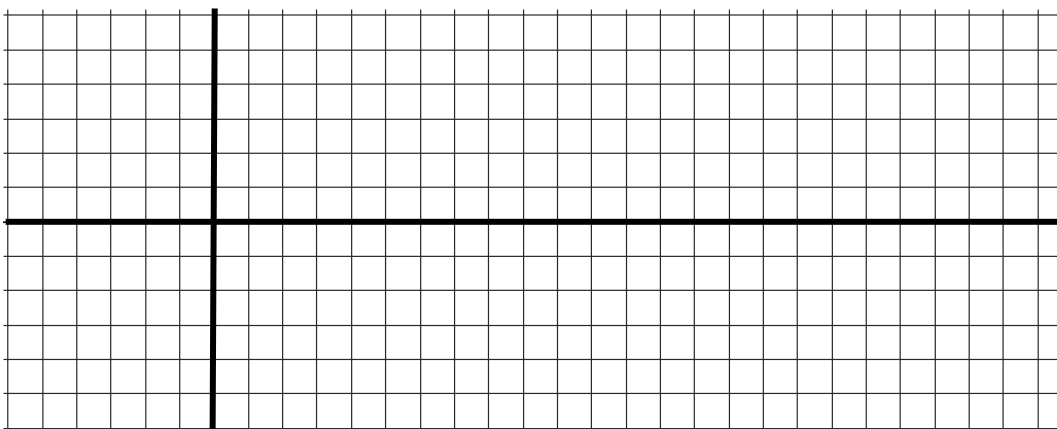


4. Graph  $f(\theta) = 4\cos 3\theta - 2$ .

Amplitude: \_\_\_\_\_ Period: \_\_\_\_\_

Vert. Shift: \_\_\_\_\_ Increment: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_ Key Values: \_\_\_\_\_

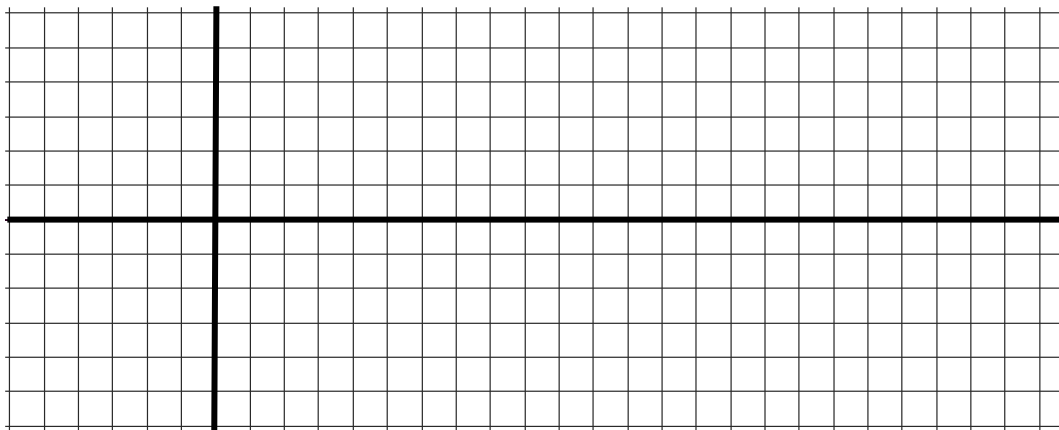


5. Sketch  $f(\theta) = -3\sin\left(2\theta - \frac{\pi}{2}\right) + 1$

Amplitude: \_\_\_\_\_ Period: \_\_\_\_\_

Vert. Shift: \_\_\_\_\_ Increment: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_ Key Values: \_\_\_\_\_



6. Sketch  $f(\theta) = -3\cos\frac{\pi}{4}(\theta - 3) + 2$

Amplitude: \_\_\_\_\_ Period: \_\_\_\_\_

Vert. Shift: \_\_\_\_\_ Increment: \_\_\_\_\_

Horizontal Shift: \_\_\_\_\_ Key Values: \_\_\_\_\_

