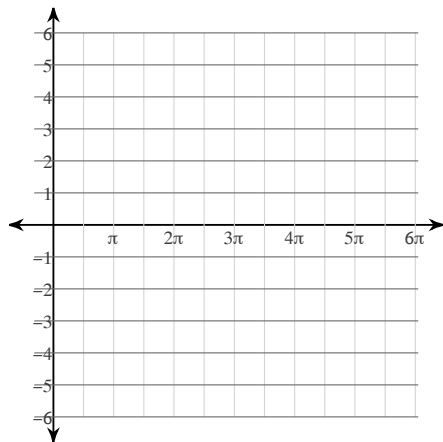


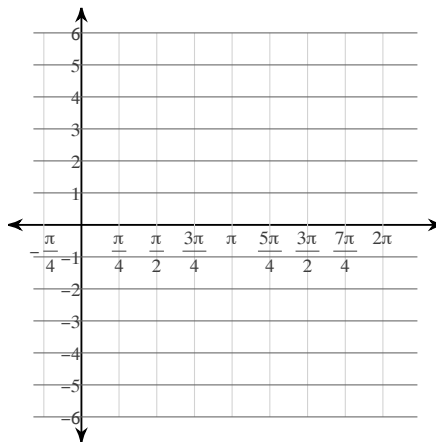
Sine and Cosine Graphing WS

Graph each function using radians.

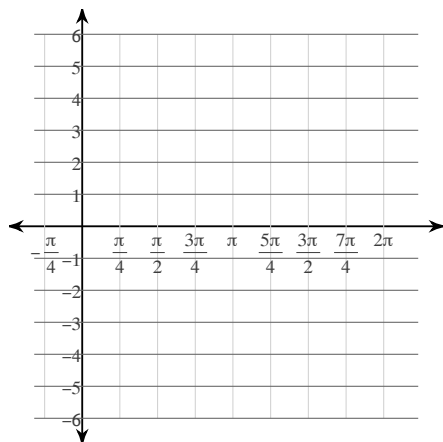
1) $y = 4\sin \frac{\theta}{2} + 2$



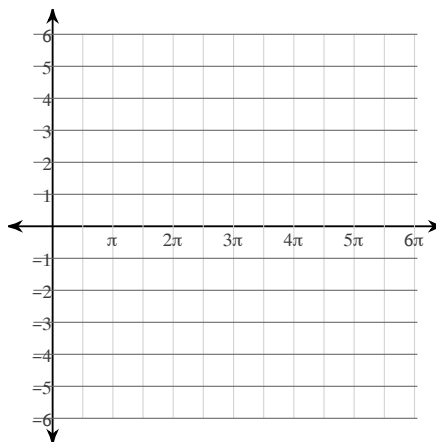
2) $y = \frac{1}{2} \cdot \cos 2\theta - 2$



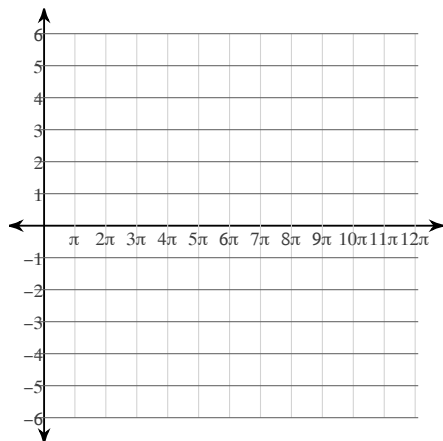
3) $y = \frac{1}{2} \cdot \sin \left(2\theta + \frac{\pi}{2} \right)$



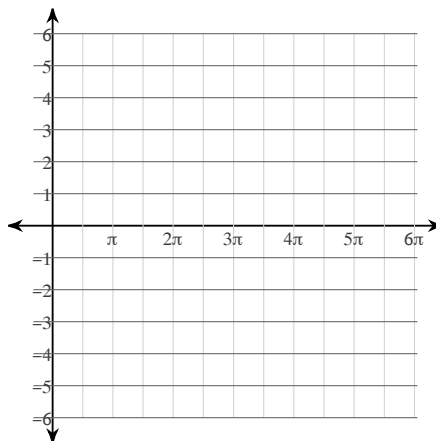
4) $y = 4\cos \left(\frac{\theta}{2} - \frac{\pi}{2} \right)$



5) $y = 4\sin \left(\frac{\theta}{4} - \frac{3\pi}{2} \right)$

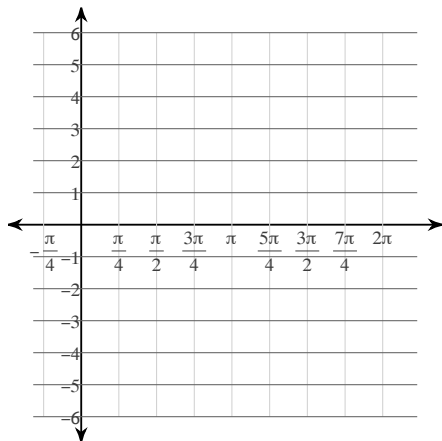


6) $y = 3\sin \left(\frac{\theta}{2} + \frac{\pi}{4} \right) - 2$

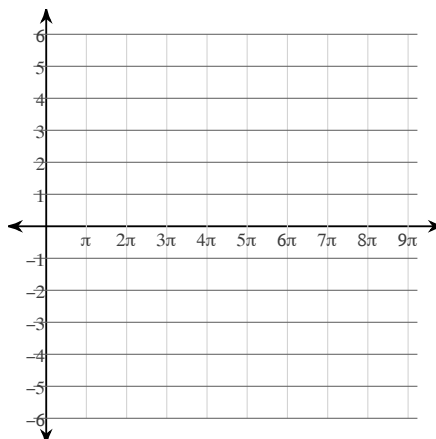


Write the equation for each graph. Assume there is no phase shift.

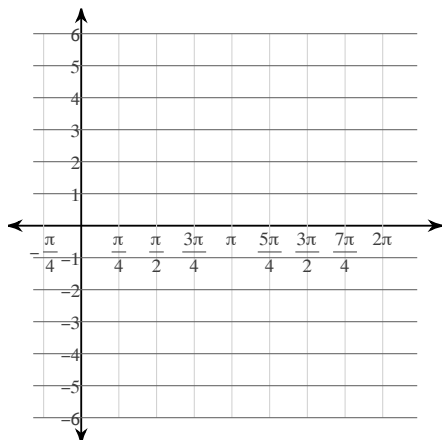
7) $y = 4\cos 4\theta - 2$



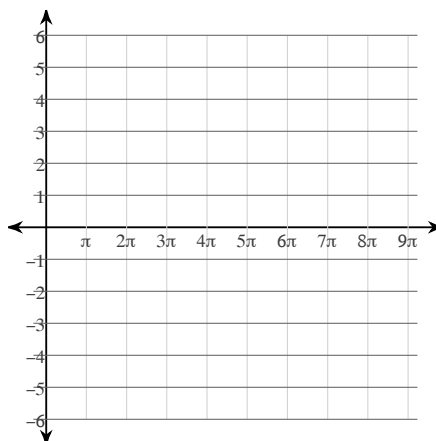
8) $y = \frac{1}{2} \cdot \sin \frac{\theta}{3}$



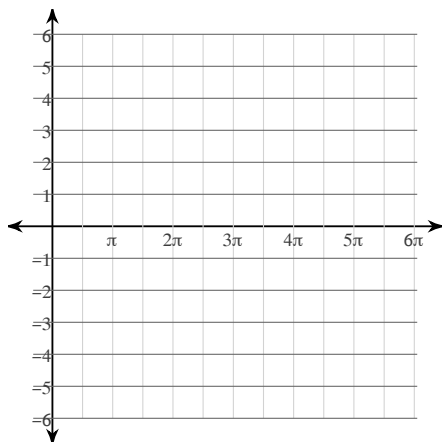
9) $y = 4\sin 2\theta + 1$



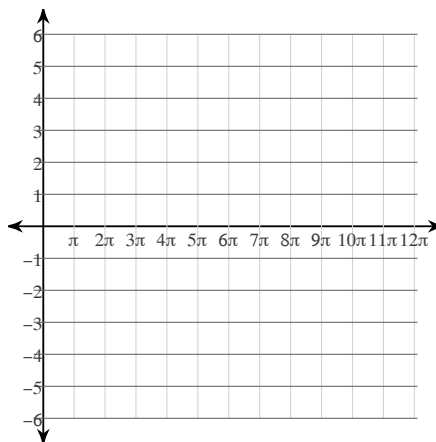
10) $y = 3\cos \frac{\theta}{3} + 2$



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



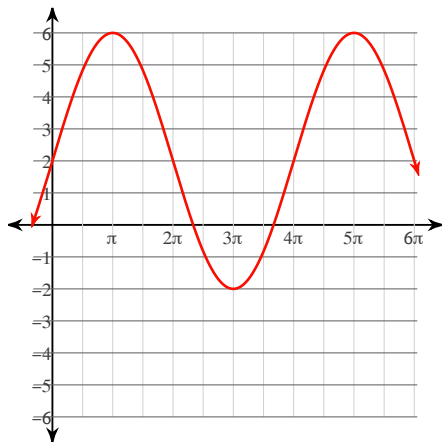
12) $y = \frac{1}{2} \cdot \sin \frac{\theta}{4} - 1$



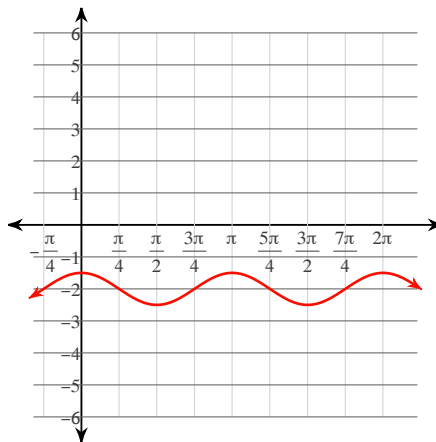
Sine and Cosine Graphing WS

Graph each function using radians.

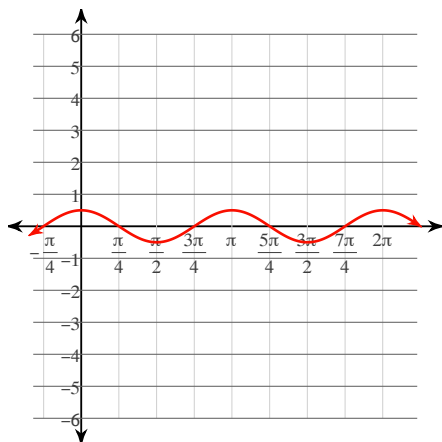
1) $y = 4\sin \frac{\theta}{2} + 2$



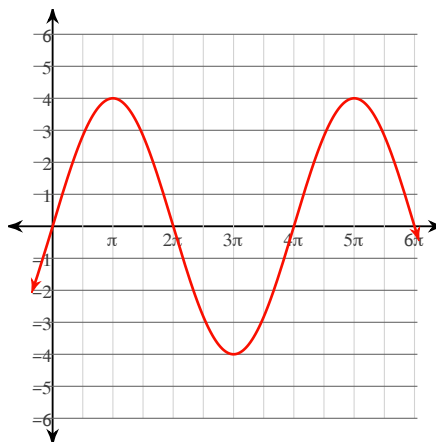
2) $y = \frac{1}{2} \cdot \cos 2\theta - 2$



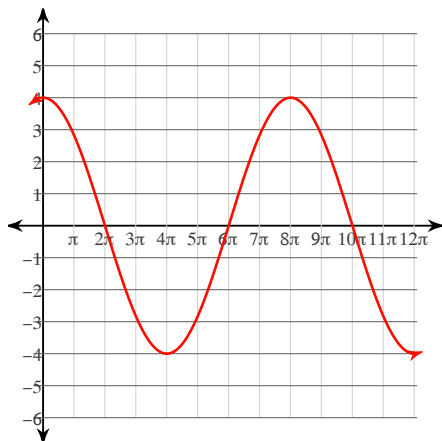
3) $y = \frac{1}{2} \cdot \sin \left(2\theta + \frac{\pi}{2} \right)$



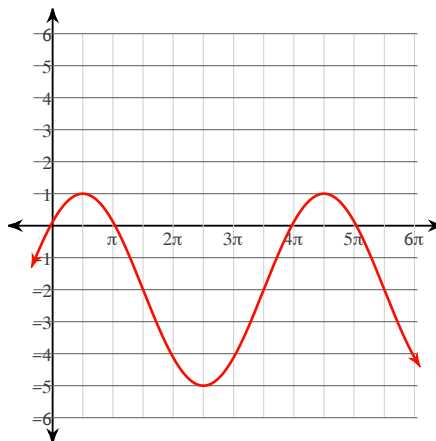
4) $y = 4\cos \left(\frac{\theta}{2} - \frac{\pi}{2} \right)$



5) $y = 4\sin \left(\frac{\theta}{4} - \frac{3\pi}{2} \right)$

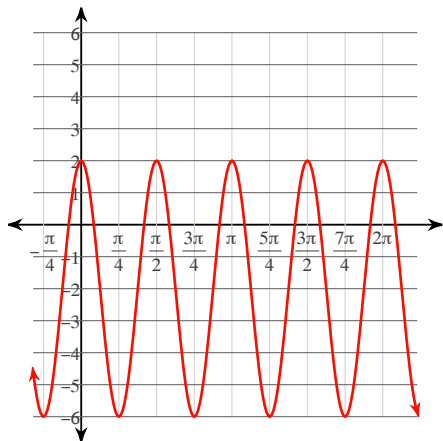


6) $y = 3\sin \left(\frac{\theta}{2} + \frac{\pi}{4} \right) - 2$

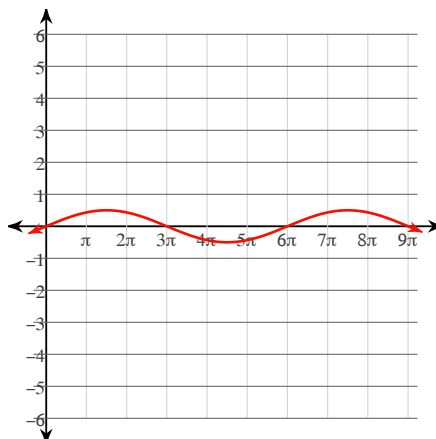


Write the equation for each graph. Assume there is no phase shift.

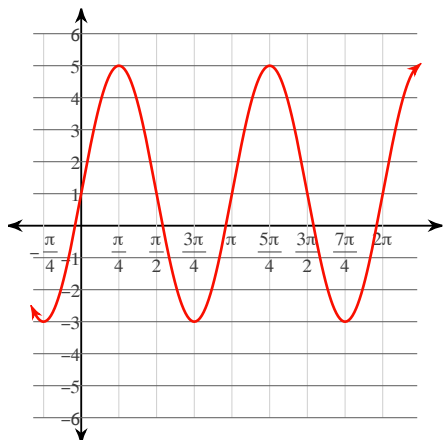
7) $y = 4\cos 4\theta - 2$



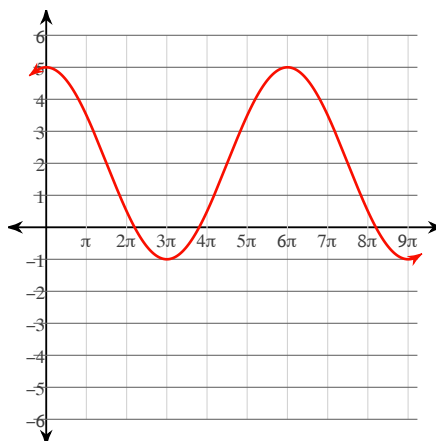
8) $y = \frac{1}{2} \cdot \sin \frac{\theta}{3}$



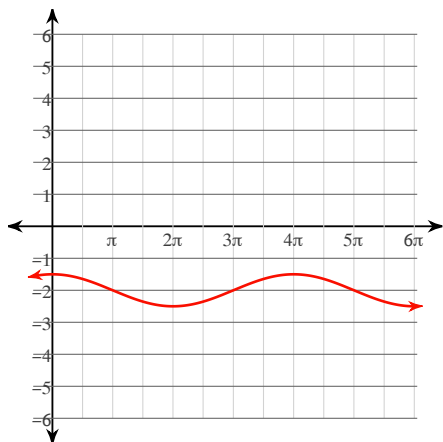
9) $y = 4\sin 2\theta + 1$



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



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



12) $y = \frac{1}{2} \cdot \sin \frac{\theta}{4} - 1$

