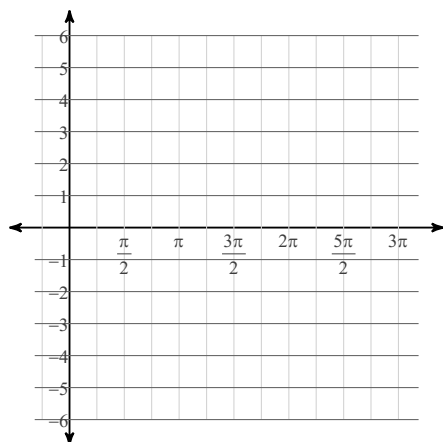


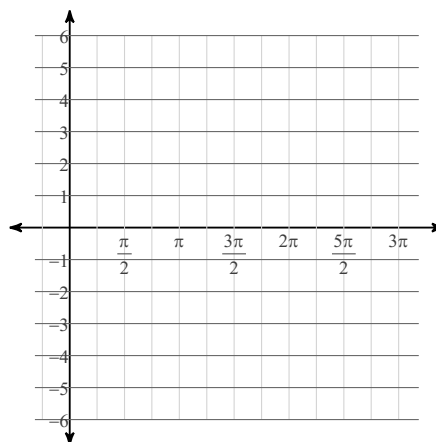
Transformed sine and cosine functions (M3 7.1) practice

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

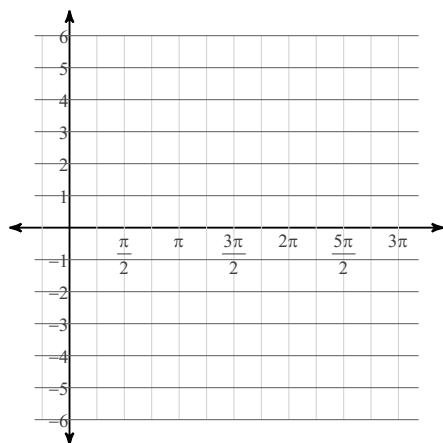
1) $y = -1 + 4\cos\left(\theta + \frac{\pi}{4}\right)$



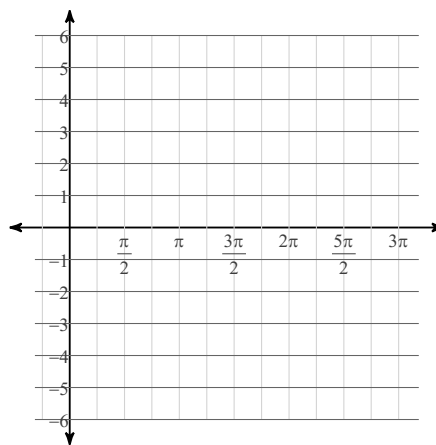
2) $y = 2\sin\left(\theta - \frac{5\pi}{6}\right) - 1$



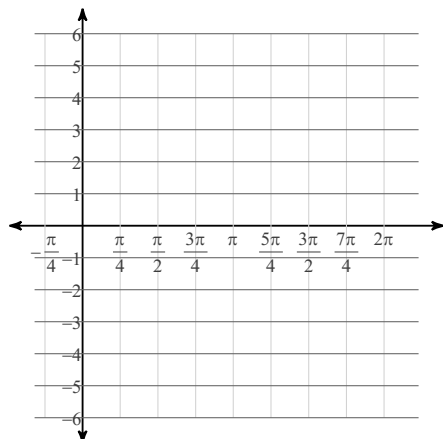
3) $y = \frac{1}{2} \cdot \sin\left(\theta + \frac{\pi}{2}\right) - 1$



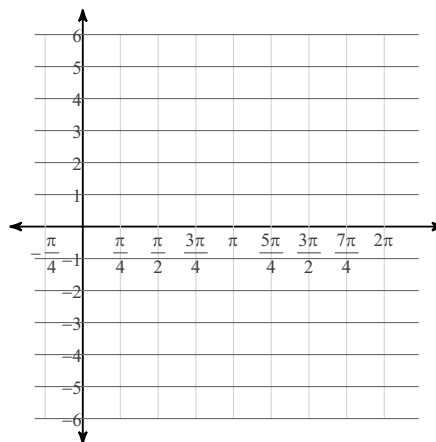
4) $y = 2\sin\left(\theta + \frac{2\pi}{3}\right) - 2$



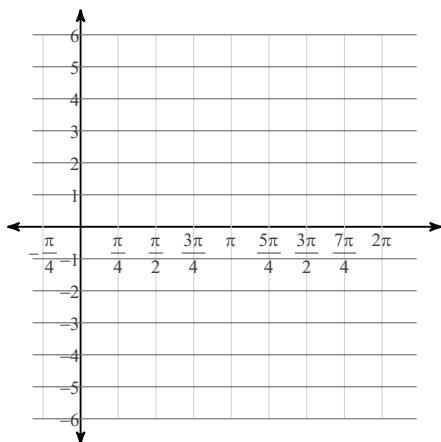
5) $y = \frac{1}{2} \cdot \cos\left(4\theta - \frac{2\pi}{3}\right) + 2$



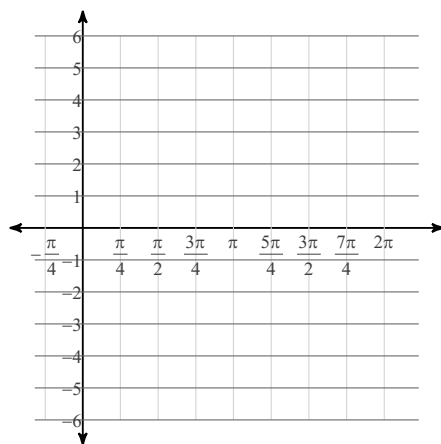
6) $y = 2\sin\left(4\theta - \frac{3\pi}{4}\right) + 1$



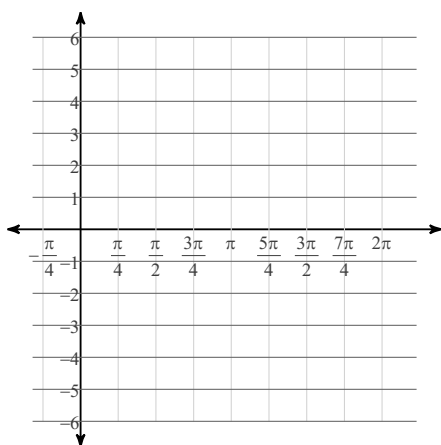
7) $y = 4\cos\left(4\theta - \frac{5\pi}{3}\right) - 1$



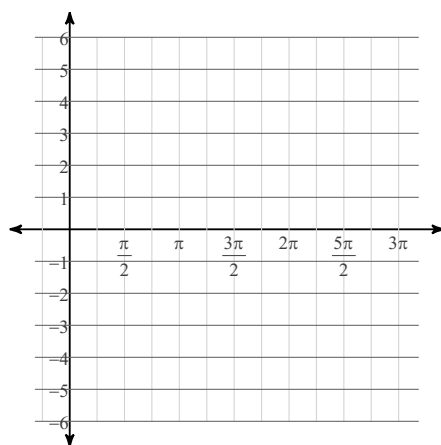
8) $y = \frac{1}{2} \cdot \sin\left(2\theta - \frac{\pi}{3}\right) + 1$



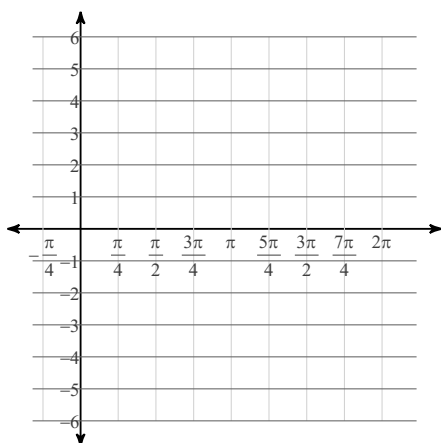
9) $y = -2 + 4\cos\left(3\theta - \frac{7\pi}{4}\right)$



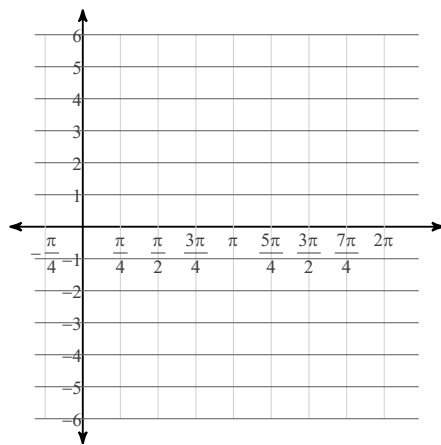
10) $y = -1 + \sin\left(\theta + \frac{\pi}{4}\right)$



11) $y = \frac{1}{2} \cdot \cos\left(2\theta + \frac{3\pi}{4}\right) + 2$

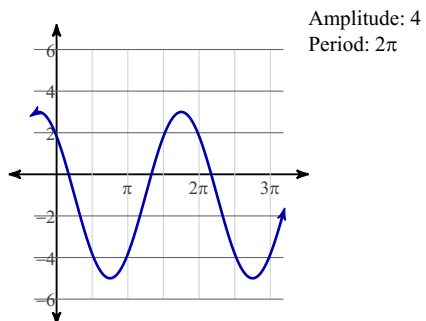


12) $y = 4\sin\left(2\theta - \frac{\pi}{3}\right) - 1$

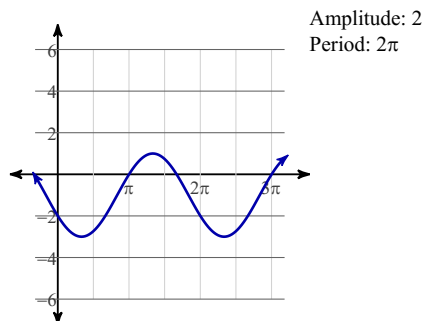


Answers to Transformed sine and cosine functions (M3 7.1) practice

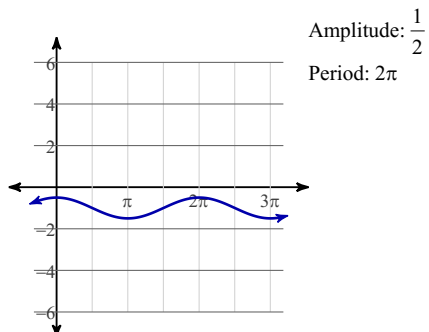
1)



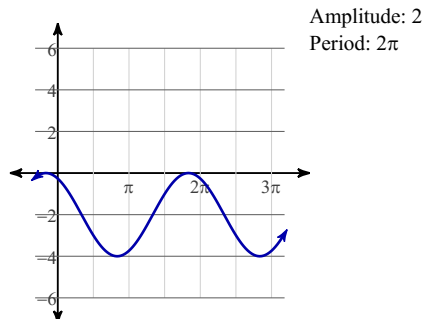
2)



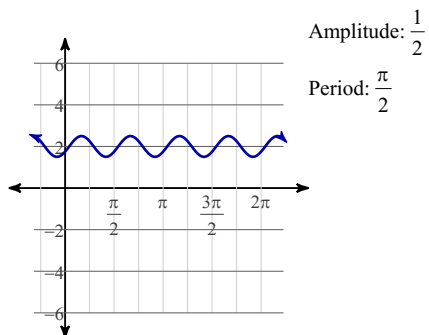
3)



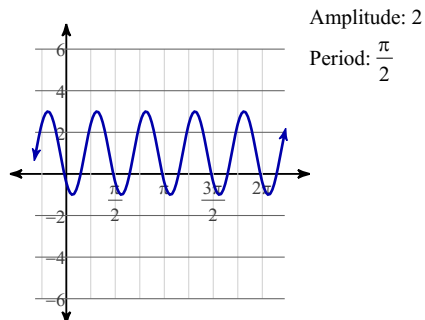
4)



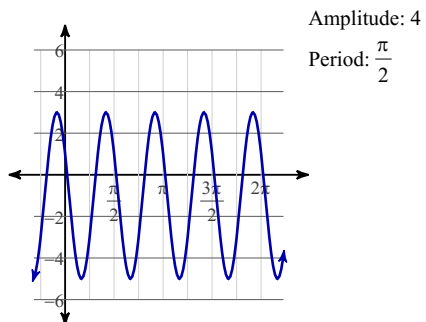
5)



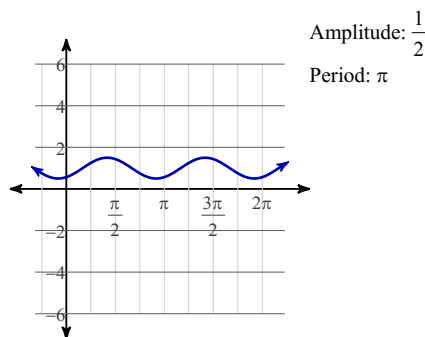
6)



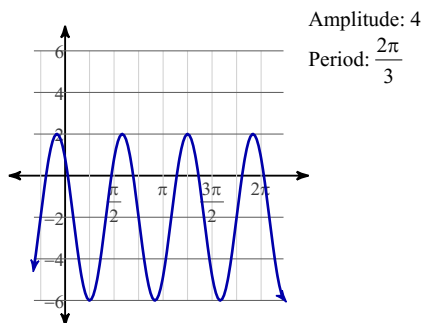
7)



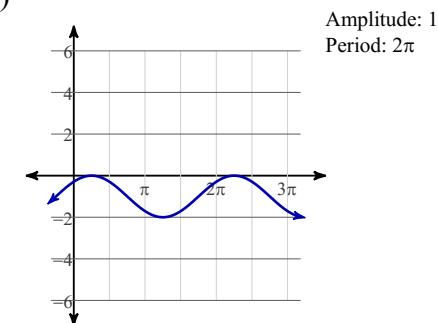
8)



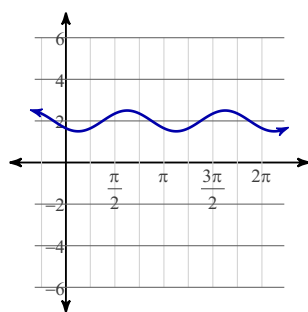
9)



10)

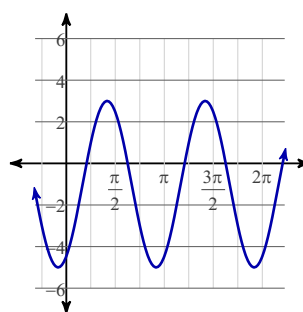


11)



Amplitude: $\frac{1}{2}$
Period: π

12)



Amplitude: 4
Period: π