

## Graphing Sine and Cosine Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Graph each function using radians.**

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

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

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

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

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

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

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

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

9)  $y = 2\cos\left(\frac{\theta}{4} + \frac{5\pi}{6}\right) - 1$

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

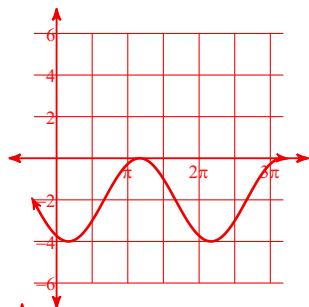
11)  $y = 4\cos\left(4\theta + \frac{3\pi}{2}\right) - 1$

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

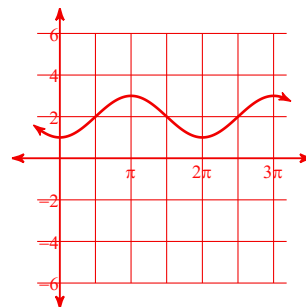
# Graphing Sine and Cosine Practice

Graph each function using radians.

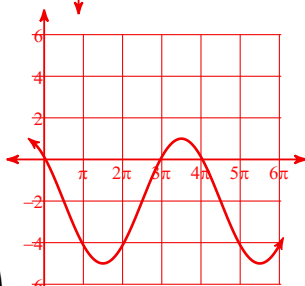
1)  $y = -2 + 2\cos\left(\theta + \frac{5\pi}{6}\right)$



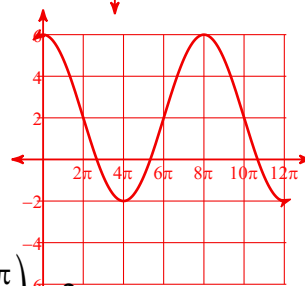
2)  $y = \sin\left(\theta - \frac{\pi}{2}\right) + 2$



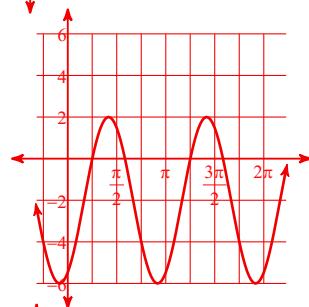
3)  $y = 3\cos\left(\frac{\theta}{2} + \frac{\pi}{4}\right) - 2$



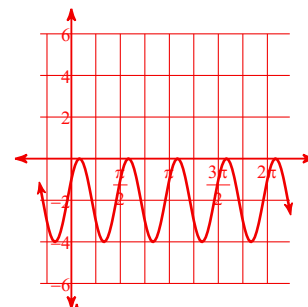
4)  $y = 4\cos\frac{\theta}{4} + 2$



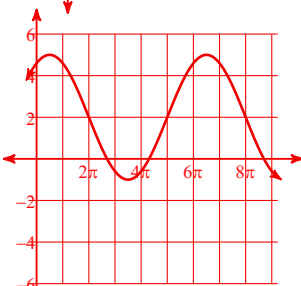
5)  $y = -2 + 4\sin\left(2\theta - \frac{\pi}{3}\right)$



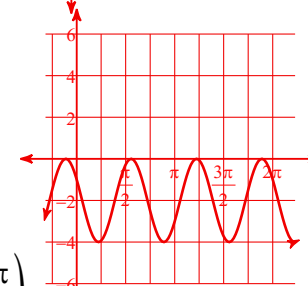
6)  $y = 2\sin\left(4\theta + \frac{\pi}{6}\right) - 2$



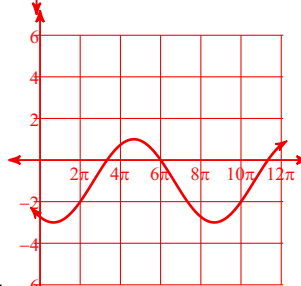
7)  $y = 3\sin\left(\frac{\theta}{3} - \frac{5\pi}{3}\right) + 2$



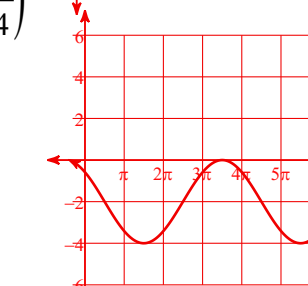
8)  $y = 2\cos\left(3\theta + \frac{\pi}{3}\right) - 2$



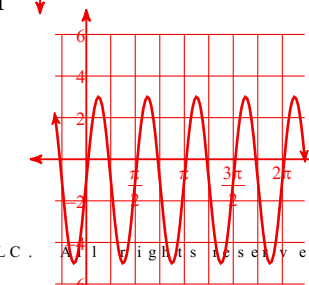
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