

8-5 Practice Graphing Cosine

Using radians, find the amplitude and period and domain and range of each function. Then graph. Your graph must include at least 2 periods.

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

3) $y = 3\cos 3\theta$

5) $y = 4\cos 2\theta$

7) $y = 3\cos \theta + 1$

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

2) $y = 2\cos 3\theta$

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

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

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

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