

8-4 HW Graphing Sine Practice

Period _____

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

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

2) $y = 4\sin \theta$

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

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

5) $y = 2\sin 2\theta$

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

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

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

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

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