

Choice the best answer to each question (12 pts. each)

- 1) ____ What is the amplitude of $y = 4 \sec 3\theta$? A) 3 B) -3 C) 4 D) -4
- 2) ____ What is the period of $y = -5 \cos 3\theta$? A) 3 B) $\frac{2\pi}{3}$ C) $\frac{5}{3}$ D) -5
- 3) ____ What is the phase shift of $y = \sin(2\theta + 5) - 4$? A) $-\frac{5}{2}$ B) $\frac{5}{2}$ C) 4 D) -4
- 4) ____ What is the vertical shift of $y = 8 \csc\left(\frac{\theta}{2} - 3\pi\right) + 7$? A) 8 B) π C) 6π D) 7
- 5) ____ 4. What is the phase shift for $y = 3 \sin(\pi x) + 2$? A) $-\pi$ B) none C) 2π D) π

Graph one period of the following functions by labeling the amplitude, period, phase shift, and vertical shift. (10 pts. each)

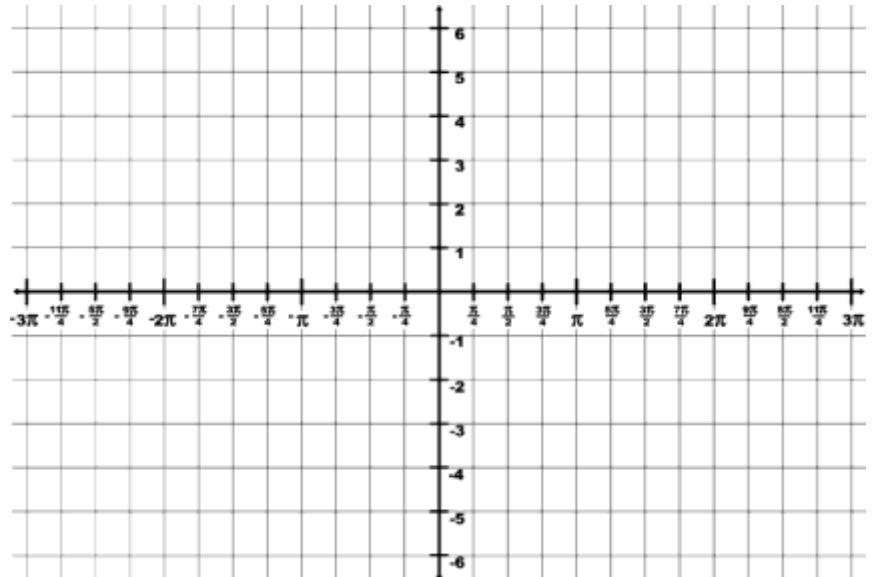
6) $y = 2 \sin \theta + 3$

Amp: _____

Period: _____

Phase Shift: _____

Vertical Shift: _____



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

Amp: _____

Period: _____

Phase Shift: _____

Vertical Shift: _____

