

Name: _____

Graphing

Find the period, amplitude, vertical and horizontal shifts,

1. $y = 3\sin(x)$

2. $y = -\frac{1}{2}\sin(\theta)$

3. $y = 4\cos(\theta)$

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

5. $y = \cos\left(\frac{x}{3}\right)$

6. $y = \cos 2\pi(x)$

7. $y = -\sin 3(\theta)$

8. $y = 4\cos\left(\frac{\theta}{4}\right)$

9. $y = -3\cos(\pi x)$

10. $y = \frac{1}{2}\sin\frac{\pi}{3}(\theta)$

11. $y = 10\cos 5(x)$

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

13. $y = -\cos(4x)$

14. $y = \frac{3}{2}\cos(2x)$

15. $y = 6\sin\frac{1}{2}(x)$

16. $y = 2\sin(\theta) + 1$

17. $y = \sin\left(\frac{x}{2}\right) - 2$

18. $y = -3\cos 4(\theta) - 5$

19. $y = 3\cos\left(x - \frac{\pi}{2}\right)$

20. $y = \sin 3\left(\theta + \frac{\pi}{3}\right)$

21. $y = -\cos\frac{\pi}{2}(x + 2)$

Graphing Sin/Cos – Graph 2 periods

1.) $y = 2\sin x - 3$

Amplitude: _____

Period: _____

Vertical Shift: _____

Phase Shift: _____



2.) $y = -3\cos(\frac{1}{2}x)$

A: _____

P: _____

VS: _____

PS: _____



3.) $y = -2\sin(2x) + 1$

A: _____

P: _____

VS: _____

PS: _____



4.) $y = 3\cos x - 2$

A: _____

P: _____

VS: _____

PS: _____



5.) $y = 3\sin(2x) - 1$

A: _____

P: _____

VS: _____

PS: _____



6) $y = -2 \cos\left(\frac{1}{4}x\right) - 1$

A: _____

P: _____

VS: _____

PS: _____



7.) $y = 3 \cos\left(\frac{1}{2}x + \frac{\pi}{2}\right) + 2$

A: _____

P: _____

VS: _____

PS: _____



8.) $y = 4 \sin(x - \pi) - 3$

A: _____

P: _____

VS: _____

PS: _____

