

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

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

22. $y = 3\sin\left(4\theta + \frac{\pi}{2}\right) + 1$

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

24. $y = -\sin\left(\frac{\pi\theta}{3} - \frac{\pi}{3}\right) - 2$