

Worksheet Sect. 4.5/4.6

Graphing Trig. Functions

Graph each equation on a separate piece of paper. For each graph identify amplitude, period, phase shift and vertical shift.

1. $y = -3\cos(2\theta + \pi) - 4$

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

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

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

5. $y = \tan\left(2\theta - \frac{\pi}{4}\right) + 1$

6. $y = \cot\left(2\theta + \frac{\pi}{4}\right) - 3$

7. $y = \tan\left(\frac{1}{2}\theta + \pi\right) + 2$

8. $y = \cot\left(\frac{1}{2}\theta - \pi\right) - 1$

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

10. $y = 2\cos(\theta + 2\pi)$

11. $y = \sin(2\theta - \pi)$

12. $y = \frac{1}{3}\csc \theta$

13. $y = 2\tan\left(3\theta + \frac{\pi}{2}\right)$

14. $y = \sec \theta + 4$