

Trig Transformations Day 2 Notes
Supp Alg 2 14.2 Radians & Equation Writing

Name _____

Sketch a graph of the following. State the amplitude, period, vertical shift and phase shift.

Example 1: $y = 4\cos\left[\frac{1}{2}\left(\theta - \frac{\pi}{3}\right)\right] - 6$

Amp: _____ Period: _____ V.S. _____ P. S. _____

Example 2: $y = 3 + 2\sin\left[2\left(\theta + \frac{\pi}{2}\right)\right]$

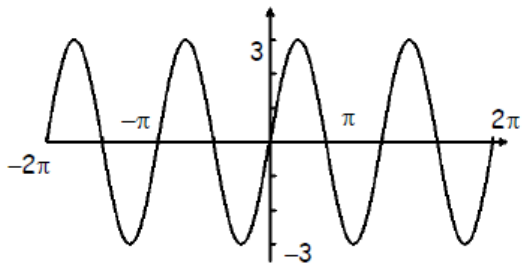
Amp: _____ Period: _____ V.S. _____ P. S. _____

To write an equation from a graph:

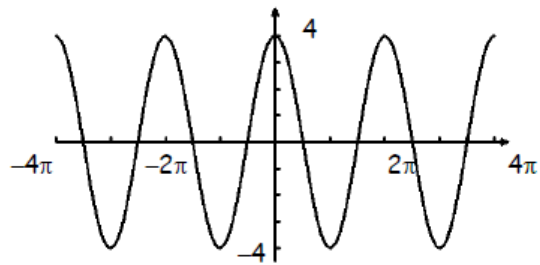
1. Find Amplitude
2. Identify the period from graph and then solve to find b
3. Find the vertical translation (sketch midline)
4. Write a sine or cosine function depending on the phase shift.

Example 3: Write an equation (sine and cosine) for the graph.

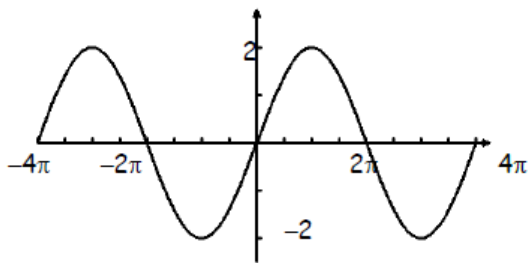
10. _____



11. _____



12. _____



13. _____

