NAME _____ CLASS _____ DATE _____

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Practice Masters Level C

13.5 Graphing Trigonometric Functions

1. Write a function for a sound wave with a frequency of 130 hertz, an amplitude of 3, and a phase shift of one-half of a period to the right. _____

Identify the amplitude, period, phase shift, and vertical shift of each function. Then graph at least one period of the function.

2. $y = -\tan(2\theta)$

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

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

5. Write a function for the graph below.