Pre-Calculus AB Name_____

Worksheet 16 - Lesson 47

Date_____ Period____

Using degrees, find the amplitude and period of each function. Then graph.

1) $y = \frac{1}{2} \cdot \cos \theta - 1$

2) $y = 3\sin \theta + 2$

Using radians, find the amplitude and period of each function. Then graph.

3) $y = \frac{1}{2} \cdot \sin \theta - 1$

4) $y = \cos \theta - 1$

5) $y = \cos \theta + 1$

6) $y = 4\cos \theta + 1$

7) Evaluate. Do not use a calculator.

$\tan^{-1}\left(\tan\frac{7\pi}{4}\right)$

8) Evaluate. Do not use a calculator.

$\tan^{-1}\left(\tan\frac{5\pi}{6}\right)$

9) Evaluate. Do not use a calculator.

$\tan^{-1}\left(\tan\frac{4\pi}{3}\right)$

10) Evaluate. Do not use a calculator.

$\tan^{-1}\left(\tan -\pi\right)$

11) Evaluate. Do not use a calculator.

$\sin\tan^{-1}\frac{5}{4}$

12) Evaluate. Do not use a calculator.

$\cos\tan^{-1}\frac{3}{5}$