Algebra 2 Name_____

11.1B Graphing Sine and Cosine Tranformations

Date_____ Period____

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

1) $y = \sin\left(\theta + \frac{\pi}{6}\right) - 1$

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

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

4) $y = \frac{1}{2} \cdot \cos\,\theta + 2$

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

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

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

8) $y = 3\cos\left(\frac{\theta}{3} - \frac{\pi}{2}\right) - 2$