Pre-Calculus Name_____

Graphing Trig Functions 2

Date_____ Period____

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

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

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

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

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

5) $y = \frac{1}{2} \cdot \sec\left(\theta + \frac{\pi}{2}\right) - 1$

6) $y = -2 + 3\sec\left(\frac{\theta}{2} + \frac{5\pi}{6}\right)$

7) $y = 2 + 2\csc\frac{\theta}{3}$

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

9) $y = 3\tan 2\theta$

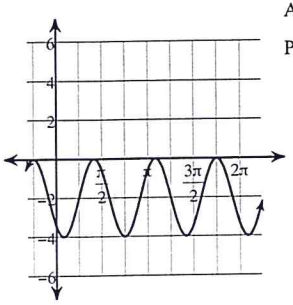
10) $y = -2 + \tan\left(\theta + \frac{\pi}{6}\right)$

11) $y = 1 + 2\cot\frac{\theta}{3}$

12) $y = 4\cot\left(\frac{\theta}{2} + \frac{\pi}{2}\right) + 1$

Answers to Graphing Trig Functions 2

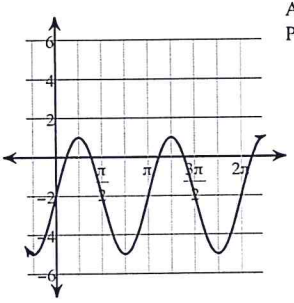
1)



Amplitude: 2

Period: $\frac{2\pi}{3}$

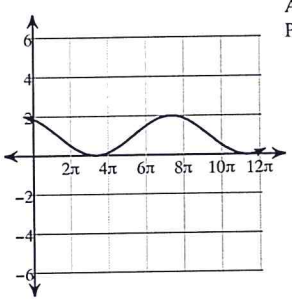
2)



Amplitude: 3

Period: π

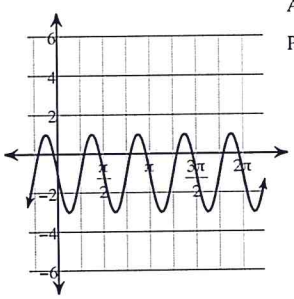
3)



Amplitude: 1

Period: 8π

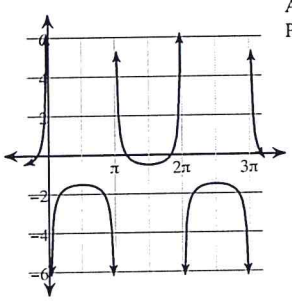
4)



Amplitude: 2

Period: $\frac{\pi}{2}$

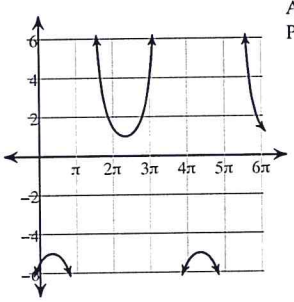
5)



Amplitude: None

Period: 2π

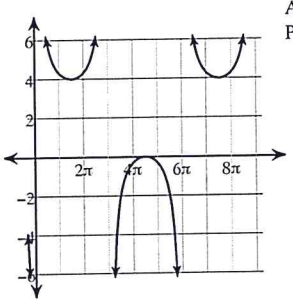
6)



Amplitude: None

Period: 4π

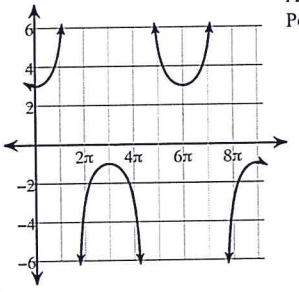
7)



Amplitude: None

Period: 6π

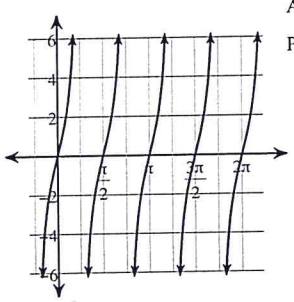
8)



Amplitude: None

Period: 6π

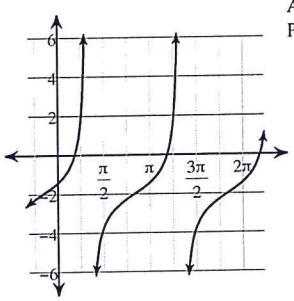
9)



Amplitude: None

Period: $\frac{\pi}{2}$

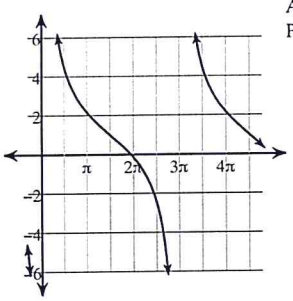
10)



Amplitude: None

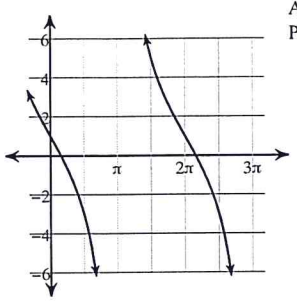
Period: π

11)



Amplitude: None
Period: 3π

12)



Amplitude: None
Period: 2π