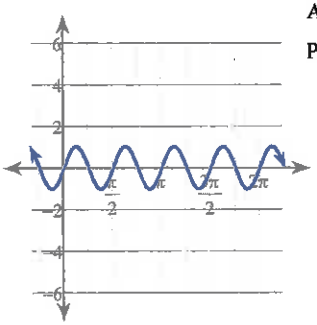
MATH 5 SN Name_____

TRIGONOMETRY PART 2 MULTIPLE CHOICE PRETEST

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

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

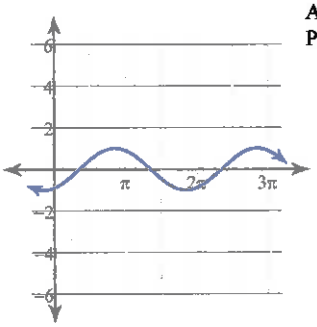
A)



Amplitude: 1

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

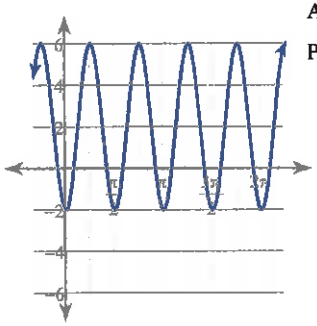
B)



Amplitude: 1

Period: 2π

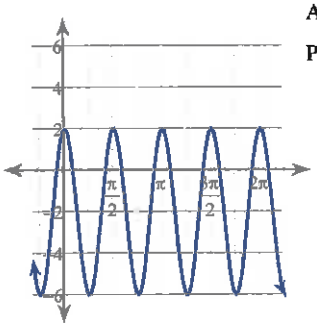
C)



Amplitude: 4

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

D)

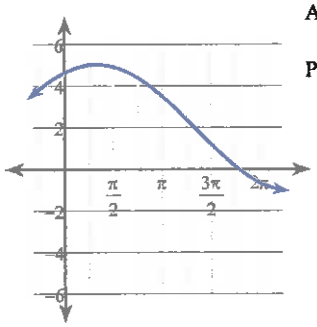


Amplitude: 4

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

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

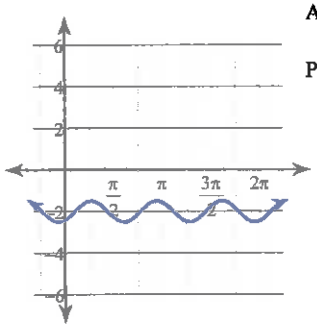
A)



Amplitude: $\frac{1}{2}$

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

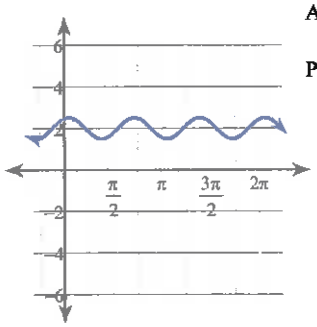
B)



Amplitude: $\frac{1}{2}$

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

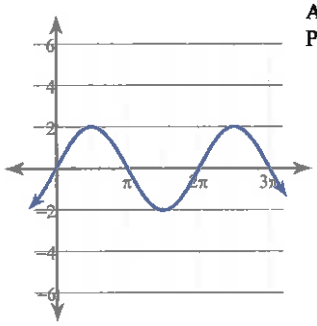
C)



Amplitude: $\frac{1}{2}$

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

D)

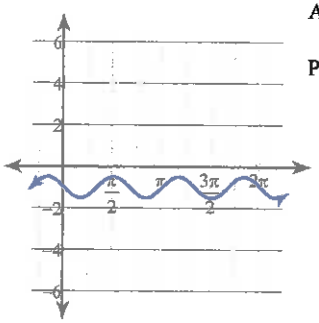


Amplitude: 2

Period: 2π

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

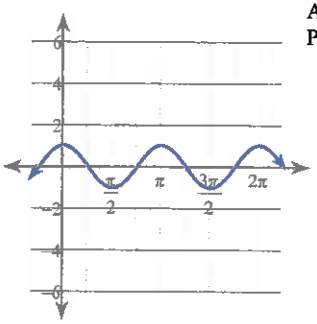
A)



Amplitude: $\frac{1}{2}$

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

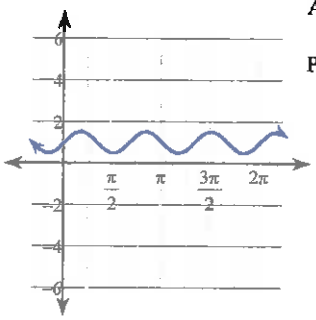
B)



Amplitude: 1

Period: π

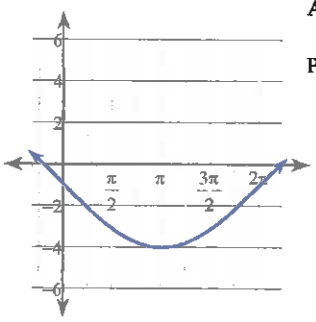
C)



Amplitude: $\frac{1}{2}$

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

D)

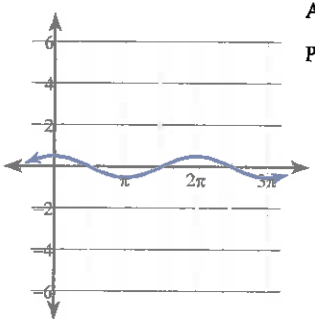


Amplitude: $\frac{1}{2}$

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

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

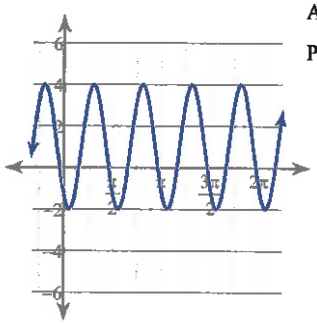
A)



Amplitude: $\frac{1}{2}$

Period: 2π

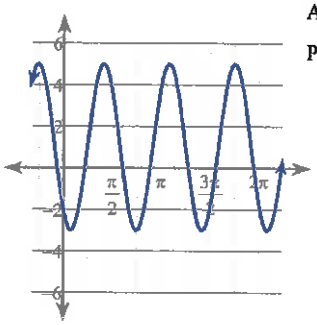
B)



Amplitude: 4

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

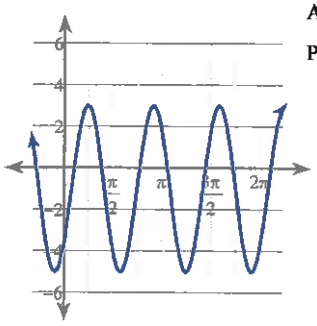
C)



Amplitude: 4

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

D)

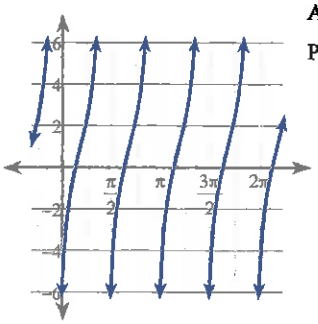


Amplitude: 4

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

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

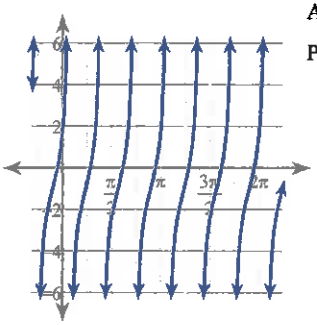
A)



Amplitude: None

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

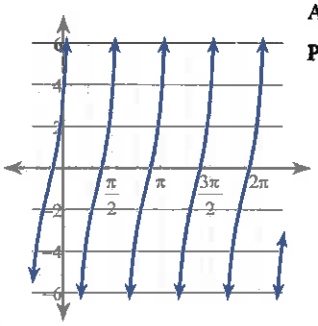
B)



Amplitude: None

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

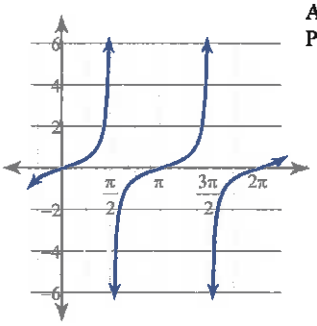
C)



Amplitude: None

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

D)

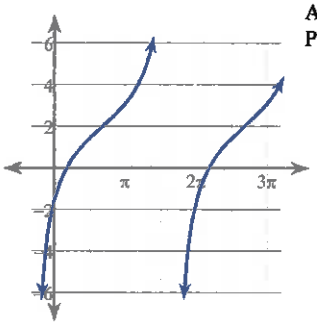


Amplitude: None

Period: π

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

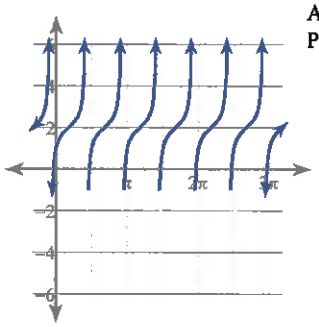
A)



Amplitude: None

Period: 2π

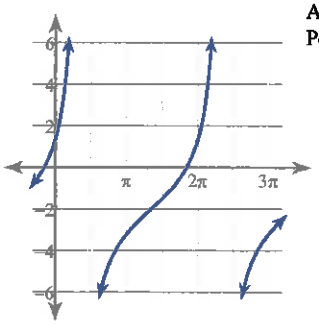
B)



Amplitude: None

Period: 2π

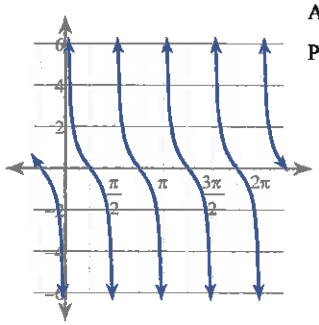
C)



Amplitude: None

Period: 2π

D)



Amplitude: None

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

Answers to TRIGONOMETRY PART 2 MULTIPLE CHOICE PRETEST

1) D
2) C
3) A
4) C
5) C
6) A