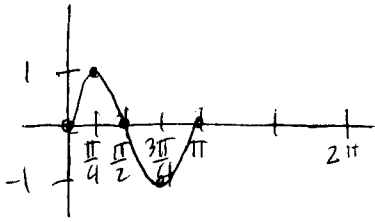


# 13-7 Graphing Trig. Functions Practice

Name Master E  
Date \_\_\_\_\_ Block \_\_\_\_\_

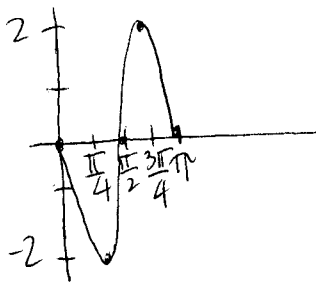
Graph each trigonometric function and state its domain, range, period, and amplitude (when applicable).

1.  $y = \sin 2x$   $\frac{2\pi}{2} = \pi$



D:  $(-\infty, \infty)$  R:  $[-1, 1]$  P:  $\pi$  A: 1

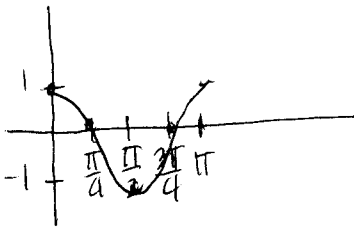
3.  $y = -2 \sin 2x$



D:  $(-\infty, \infty)$  R:  $[-2, 2]$  P:  $\pi$  A: 2

5.  $y = \cos 2x$

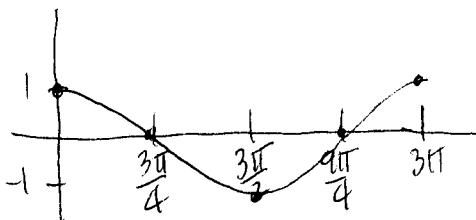
$\frac{2\pi}{2} = \pi$



D:  $(-\infty, \infty)$  R:  $[-1, 1]$  P:  $\pi$  A: 1

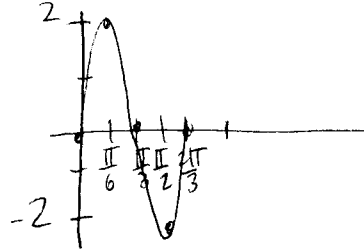
7.  $y = \cos \frac{2}{3}\theta$

$\frac{2\pi}{\frac{2}{3}} = 2\pi \cdot \frac{3}{2} = 3\pi$



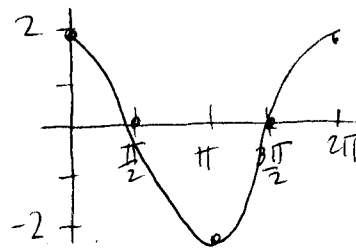
D:  $(-\infty, \infty)$  R:  $[-1, 1]$  P:  $3\pi$  A: 1

2.  $y = 2 \sin 3x$   $\frac{2\pi}{3}$



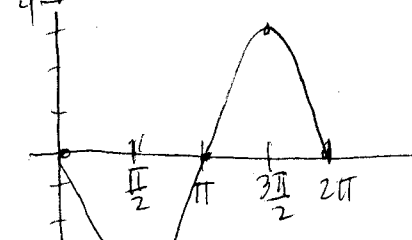
D:  $(-\infty, \infty)$  R:  $[-2, 2]$  P:  $\frac{2\pi}{3}$  A: 2

4.  $y = 2 \cos x$



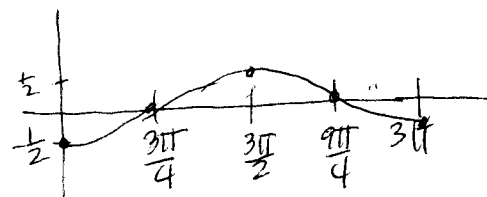
D:  $(-\infty, \infty)$  R:  $[-2, 2]$  P:  $2\pi$  A: 2

6.  $y = -4 \sin \theta$



D:  $(-\infty, \infty)$  R:  $[-4, 4]$  P:  $2\pi$  A: 4

8.  $y = \frac{-1}{2} \cos \frac{2}{3}\theta$

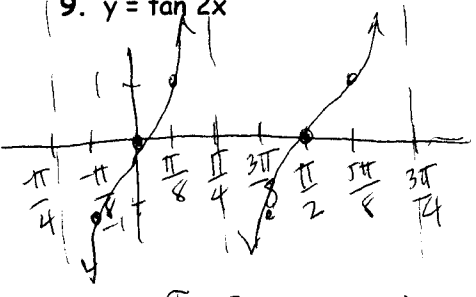


D:  $(-\infty, \infty)$  R:  $[-\frac{1}{2}, \frac{1}{2}]$  P:  $3\pi$  A:  $\frac{1}{2}$

$\frac{\pi}{2}$

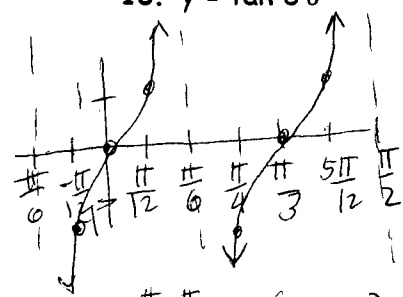
$\frac{\pi}{3}$

9.  $y = \tan 2x$



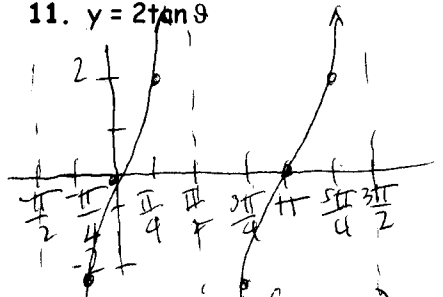
D:  $\mathbb{R}, x \neq \frac{\pi}{4} + \frac{\pi n}{2}$  R:  $(-\infty, \infty)$  P:  $\frac{\pi}{2}$

10.  $y = \tan 3\theta$



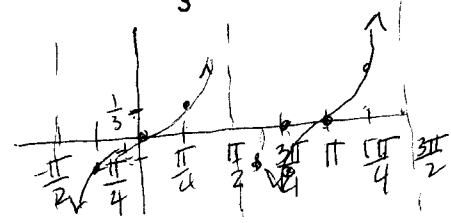
D:  $\mathbb{R}, x \neq \frac{\pi}{6} + \frac{\pi n}{3}$  R:  $(-\infty, \infty)$  P:  $\frac{\pi}{3}$

11.  $y = 2 \tan \theta$



D:  $\mathbb{R}, x \neq \frac{\pi}{2} + \pi n$  R:  $(-\infty, \infty)$  P:  $\pi$

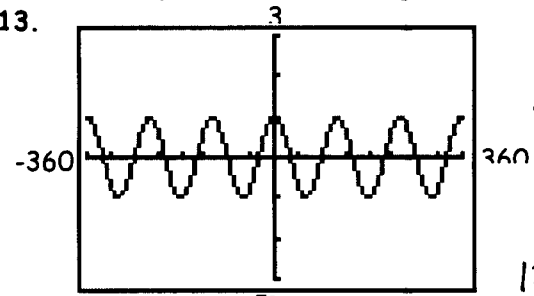
12.  $y = \frac{1}{3} \tan \theta$



D:  $\mathbb{R}, x \neq \frac{\pi}{2} + \pi n$  R:  $(-\infty, \infty)$  P:  $\pi$

Write the equation of each trig function and state its domain, range, period, and amplitude.

13.

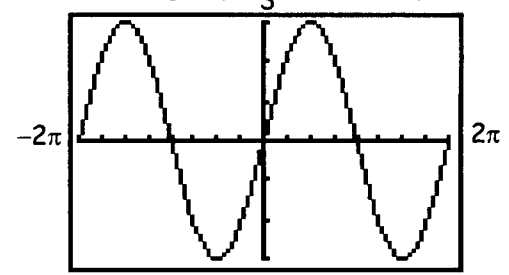


Equation:  $y = \cos 3x$

D:  $(-\infty, \infty)$  R:  $[-1, 1]$

P:  $120^\circ$  A:  $1$

14.

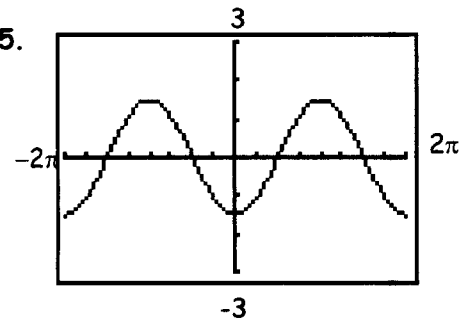


Equation:  $y = 3 \sin x$

D:  $(-\infty, \infty)$  R:  $[-3, 3]$

P:  $2\pi$  A:  $3$

15.

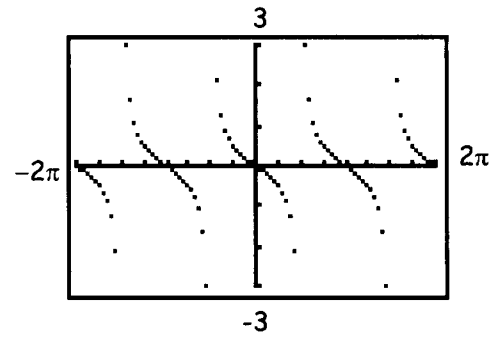


Equation:  $y = -1.5 \cos x$

D:  $(-\infty, \infty)$  R:  $[-1.5, 1.5]$

P:  $2\pi$  A:  $1.5$

16.



Equation:  $y = -\tan x$

D:  $\mathbb{R}, x \neq \frac{\pi}{2} + \pi n$  R:  $(-\infty, \infty)$

P:  $\pi$  A: none