

10.1 Corrective Assignment – Graphing Sine and Cosine

Name: _____

Pre-Calculus

For 1-6, identify the given information and graph the trig function.

1) $y = 3 \cos x$
 Amp: _____ Period: _____

2) $y = -\cos 2x$
 Amp: _____ Period: _____

3) $y = 3 \cos \frac{1}{2}x$
 Amp: _____ Period: _____

4) $y = 1 - 3 \sin 4x$
 Amp: _____ Period: _____

5) $y = 1 + 2 \sin 2x$
 Amp: _____ Period: _____

6) $y = 2 \cos \frac{1}{3}x - 1$
 Amp: _____ Period: _____

For 7 – 9, use the given information to create a sine function.

7)
 Amplitude: 11
 Period: 6π
 Vertical Shift: up 3

8)
 Amplitude: 3
 Period: $\frac{3\pi}{7}$
 Vertical Shift: down 9

9)
 Amplitude: 6
 Period: $\frac{1}{4}$
 Vertical Shift: up 7

For 10-12, write the equation of the following sine curves.

10)

$y =$ _____

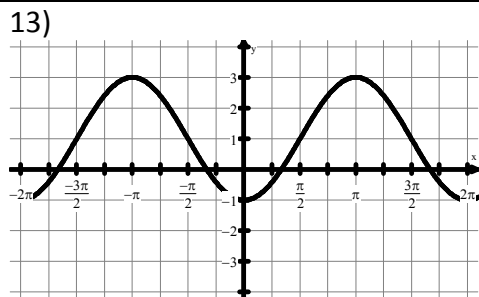
11)

$y =$ _____

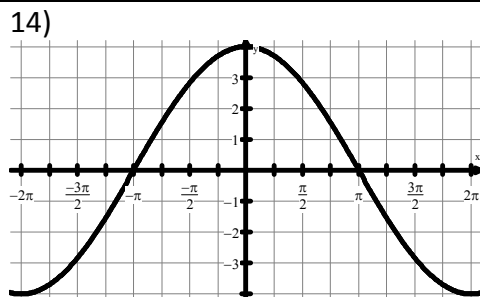
12)

$y =$ _____

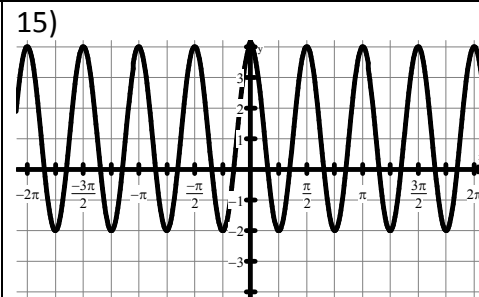
For 13-15, write the equation of the following *cosine* curves.



y = _____

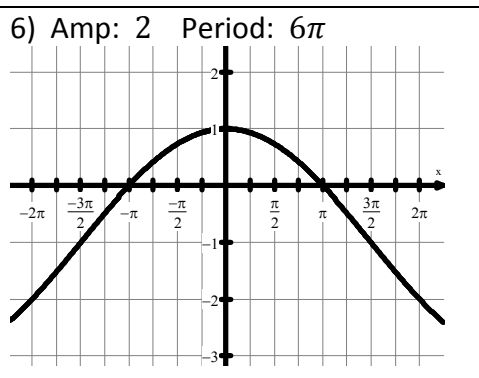
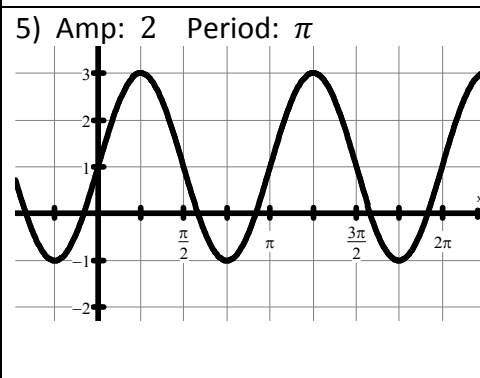
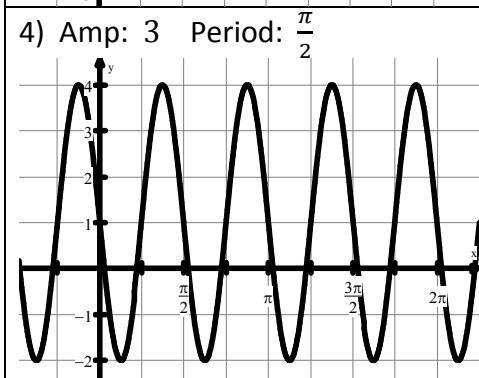
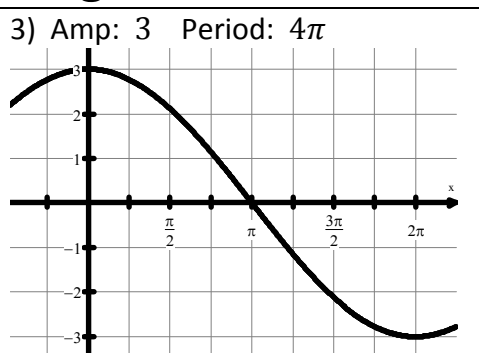
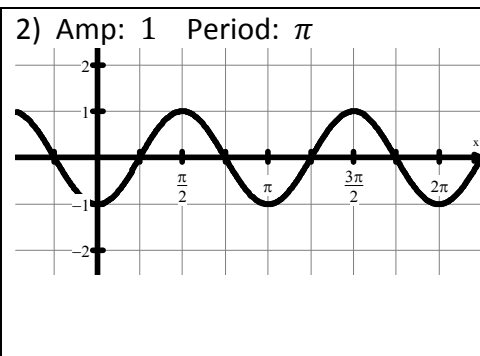
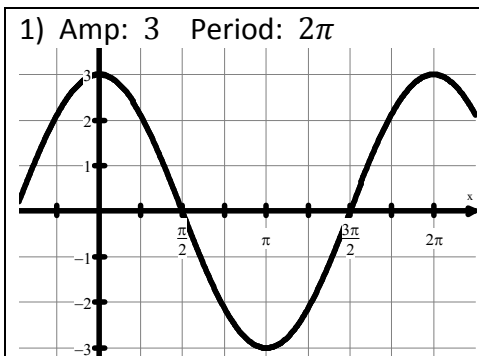


y = _____



y = _____

Answers to 10.1 Corrective Assignment



7) $y = 11 \sin\left(\frac{1}{3}x\right) + 3$

8) $y = 3 \sin\left(\frac{14}{3}x\right) - 9$

9) $y = 6 \sin(8\pi x) + 7$

10) $y = -\sin 4x$

11) $y = 3 \sin x - 1$

12) $y = 1 - 2 \sin 2x$

13) $y = -2 \cos x + 1$

14) $y = 4 \cos\left(\frac{1}{2}x\right)$

15) $y = 3 \cos 4x + 1$