

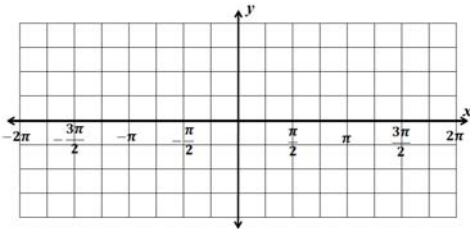
10.2 Corrective Assignment – Graphing Sine and Cosine

Name: _____

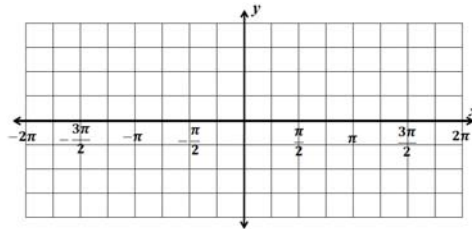
Pre-Calculus

For 1-9, graph the given function.

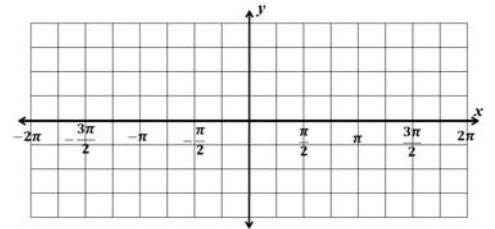
1) $y = 3 \cos\left(x - \frac{\pi}{2}\right)$



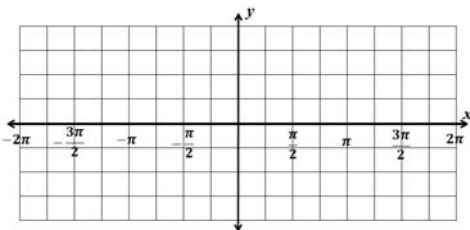
2) $y = 4 \sin(x)$



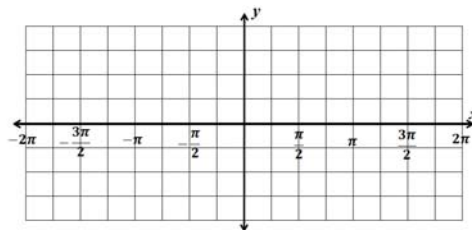
3) $y = \sin\left(\frac{x}{2} + \frac{\pi}{4}\right) + 2$



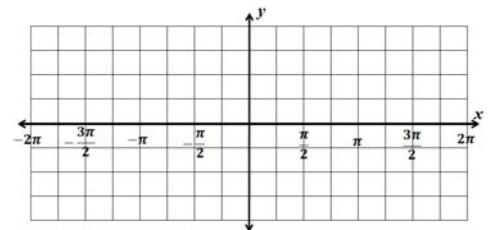
4) $y = -3 \cos\left(2x - \frac{\pi}{4}\right) + 1$



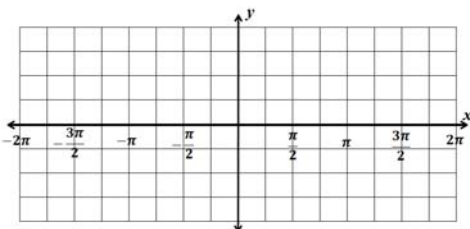
5) $y = 4 \cos\left(2x - \frac{3\pi}{2}\right)$



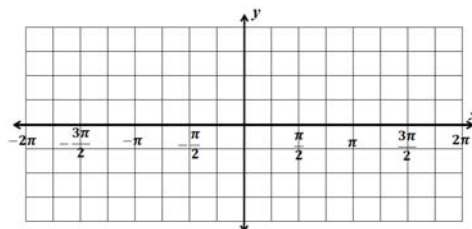
6) $y = \tan(x) - 2$



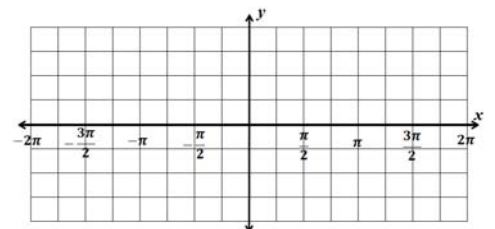
7) $y = -\sin(2x + \pi)$



8) $y = 1 + 4 \tan\left(\frac{x}{2}\right)$

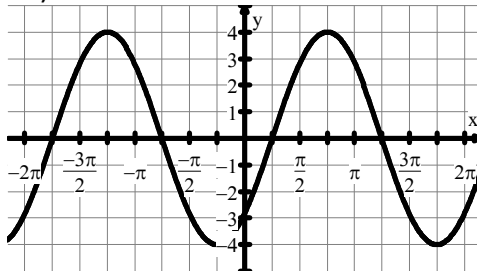


9) $y = \tan\left(x + \frac{\pi}{2}\right) - 2$



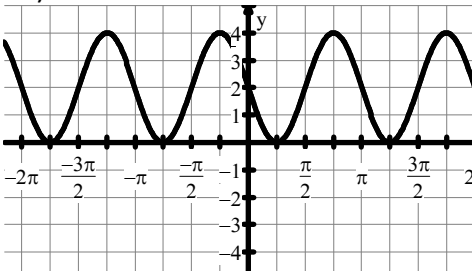
For 10-12, write the equation of the following sine curves. Use a positive leading coefficient a and the closest phase shift possible (left or right). For some problems, it may be equal to move left or right.

10)



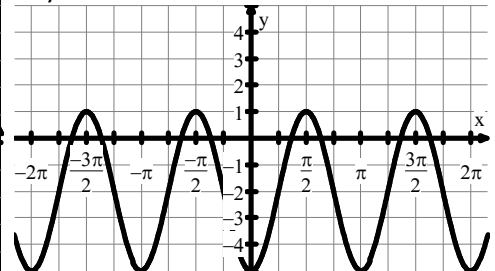
$y =$ _____

11)



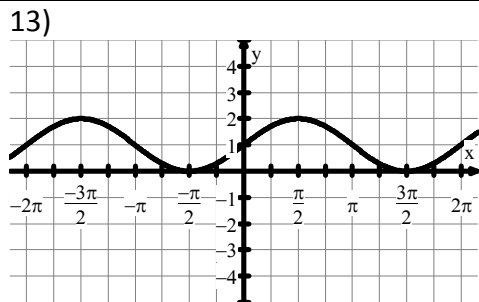
$y =$ _____

12)

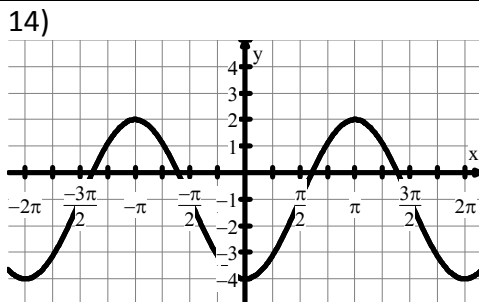


$y =$ _____

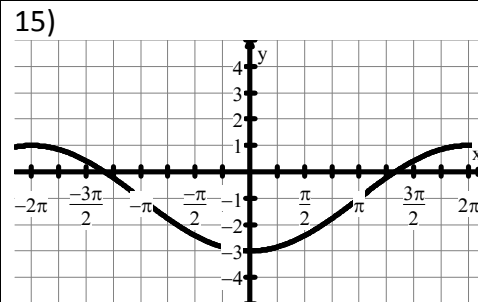
For 13-15, write the equation of the following **cosine** curves. Use a positive leading coefficient a and the closest phase possible (left or right). For some problems, it may be equal to move left or right.



$y =$ _____



$y =$ _____



$y =$ _____

Answers to 10.2 Corrective Assignment

<p>1)</p>	<p>2)</p>	<p>3)</p>
<p>4)</p>	<p>5)</p>	<p>6)</p>
<p>7)</p>	<p>8)</p>	<p>9)</p>
<p>10) $y = 4 \sin\left(x - \frac{\pi}{4}\right)$</p>	<p>11) $y = 2 \sin(2x - \pi) + 2$</p>	<p>12) $y = 3 \sin\left(2x - \frac{\pi}{2}\right) - 2$</p>
<p>13) $y = \cos\left(x - \frac{\pi}{2}\right) + 1$</p>	<p>14) $y = 3 \cos(x - \pi) - 1$</p>	<p>15) $y = 2 \cos\left(\frac{1}{2}x - \pi\right) - 1$</p>