

Pre-Calculus Worksheet

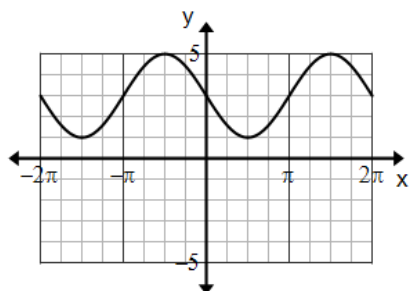
Transformations of Sine and Cosine #1

Name: _____

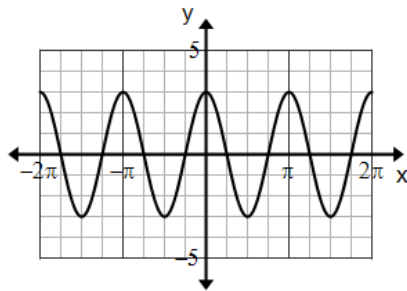
Period: _____

I. Write the equation for each graph.

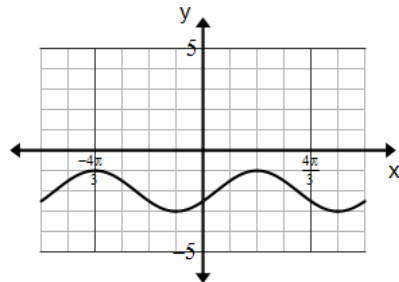
1.



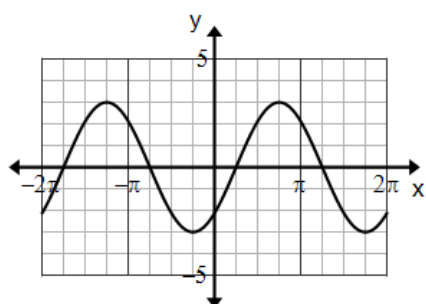
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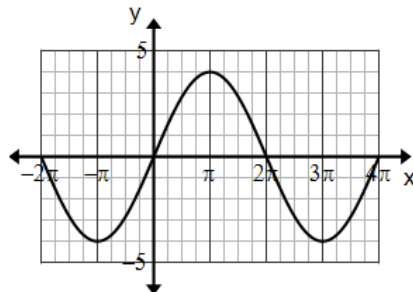
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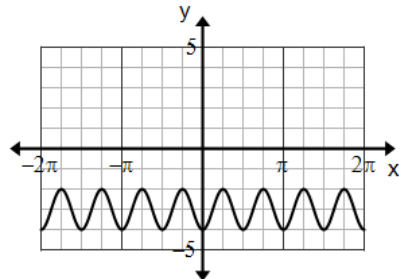
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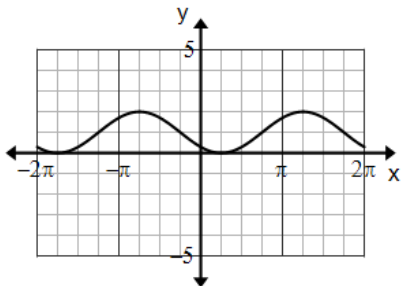
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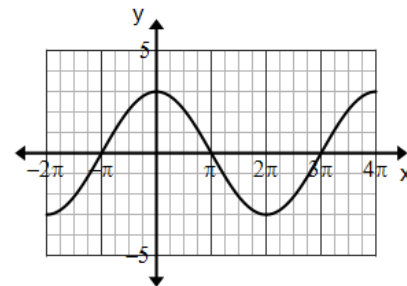
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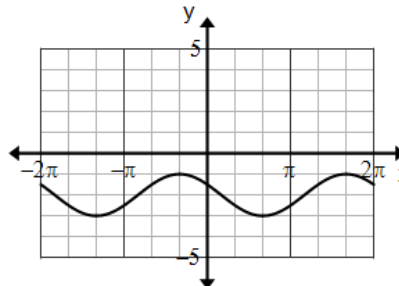
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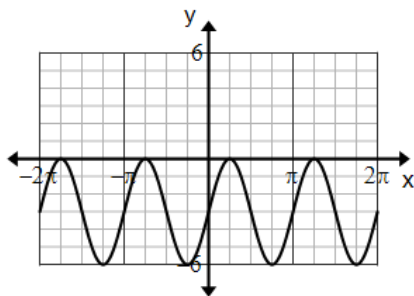
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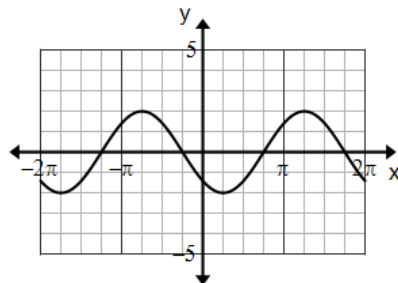
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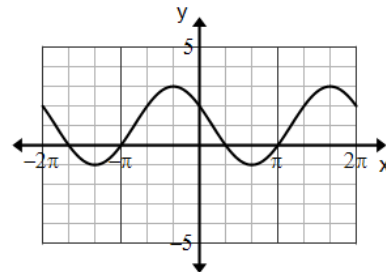
10.



11.

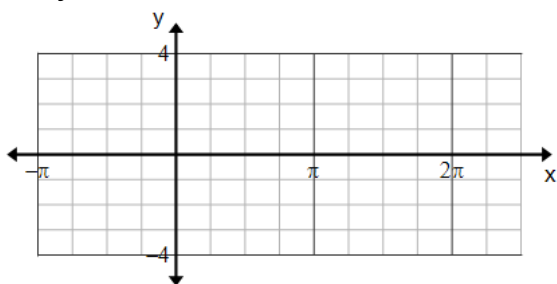


12.

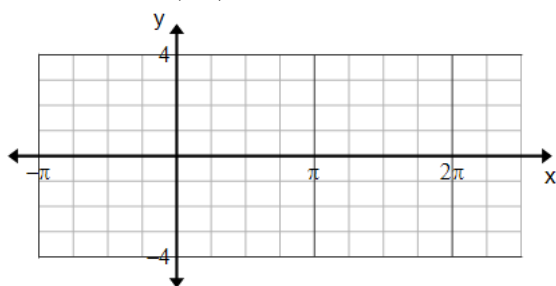


II. Graph each of the following sine or cosine transformations over ONE PERIOD.

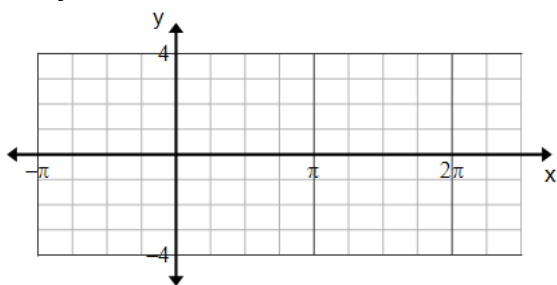
13. $y = 3\cos x + 1$



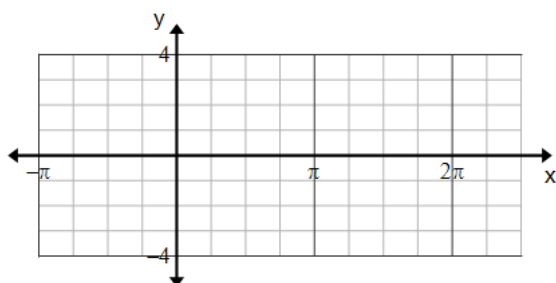
14. $y = -\sin(2x)$



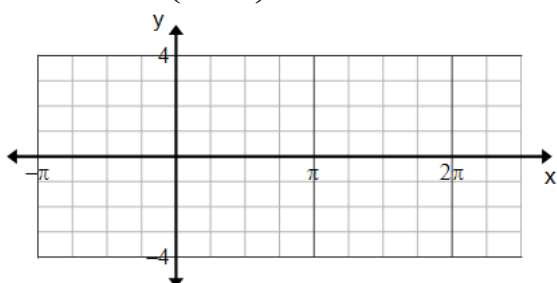
15. $y = 2\sin x - 1$



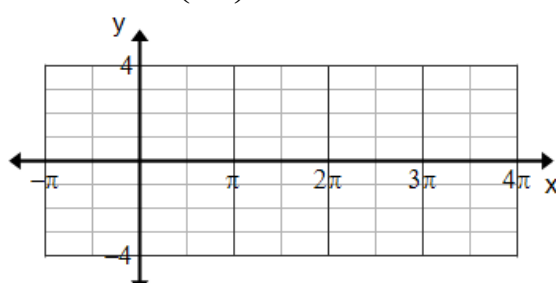
16. $y = \cos(4x) + 2$



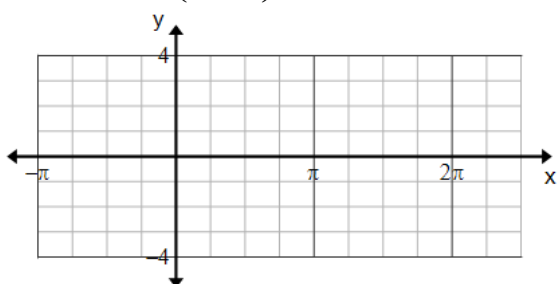
17. $y = 3\sin\left(x + \frac{\pi}{4}\right) + 1$



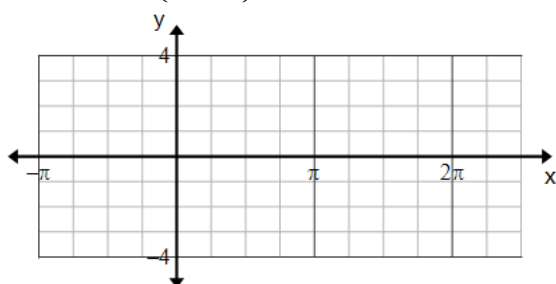
18. $y = -\cos\left(\frac{1}{2}x\right) + 3$



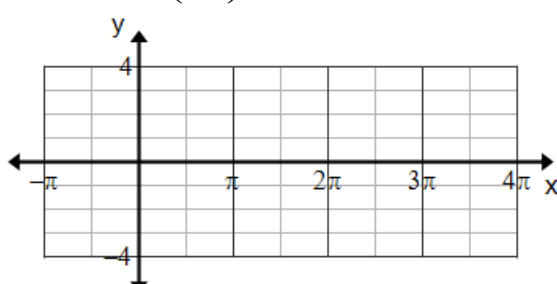
19. $y = 4\cos\left(x - \frac{\pi}{4}\right)$



20. $y = \sin\left(x - \frac{\pi}{2}\right) - 2$



21. $y = 2\sin\left(\frac{1}{2}x\right) - 1$



22. $y = -\cos\left(x + \frac{\pi}{2}\right) + 2$

