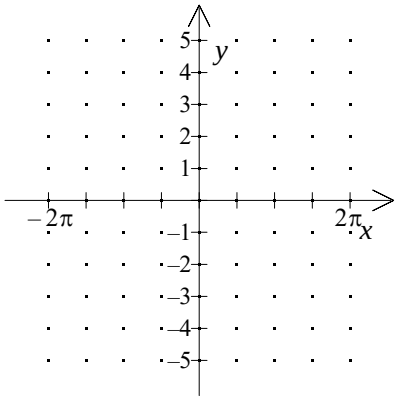
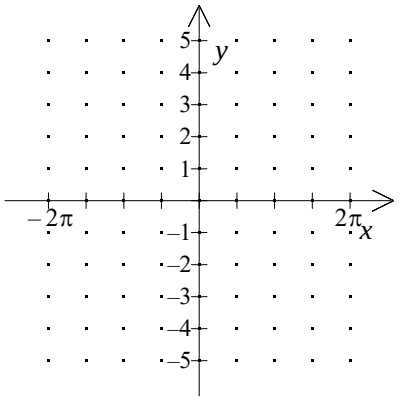
NAME:_____

1. Graph $y = \sin x$.



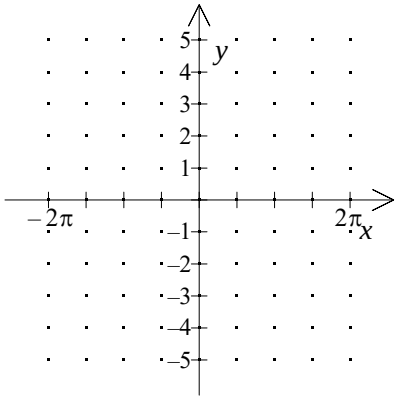
[1] _____

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



[2] _____

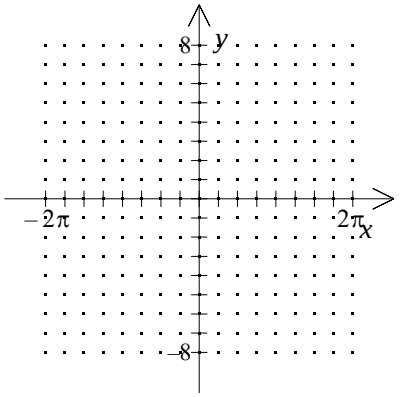
3. Graph $y = -2 \sin x$.



[3] _____

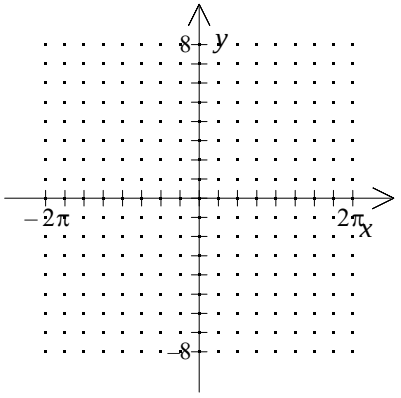
Graph:

4. $y = -3 \sin(3x)$



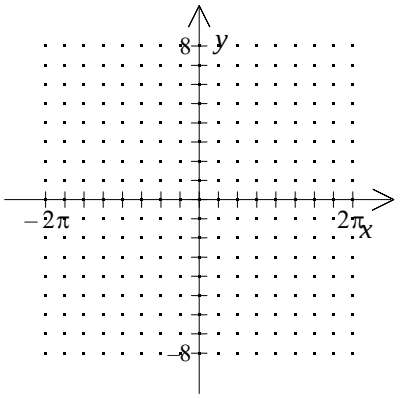
[4] _____

5. $y = -4 \sin(2x)$



[5] _____

6. $y = -2 \sin(4x)$

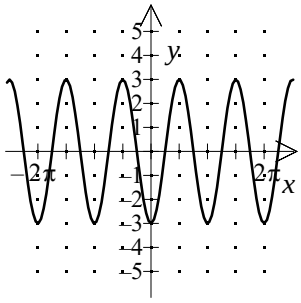


[6] _____

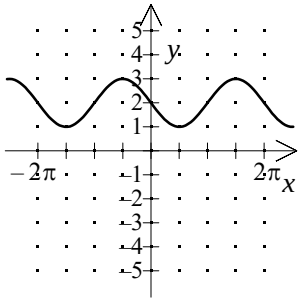
NAME:_____

7. Graph $y = -3 \sin x$.

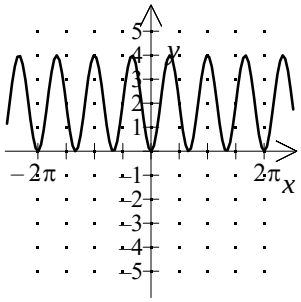
[A]



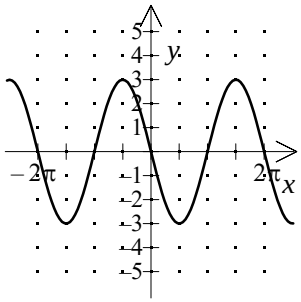
[B]



[C]



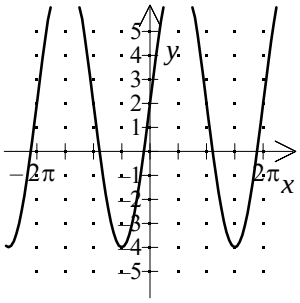
[D]



[7] _____

8. Graph $y = 4 \sin x$.

[A]



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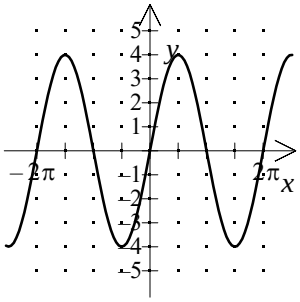
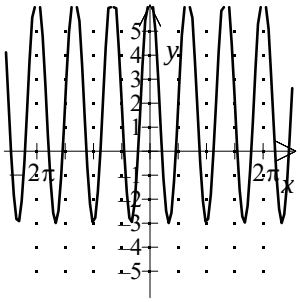
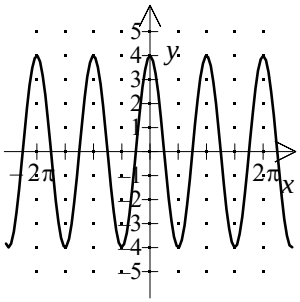


[C]



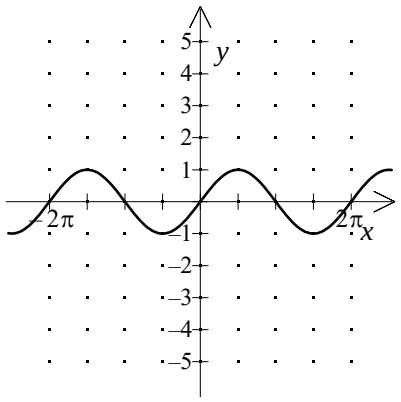
[D]

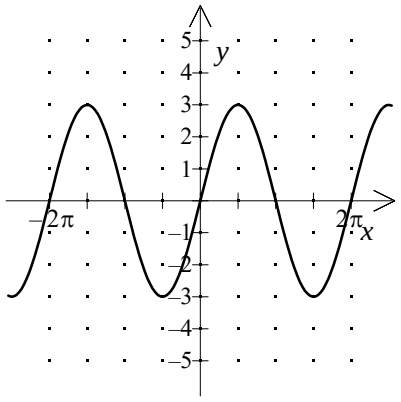


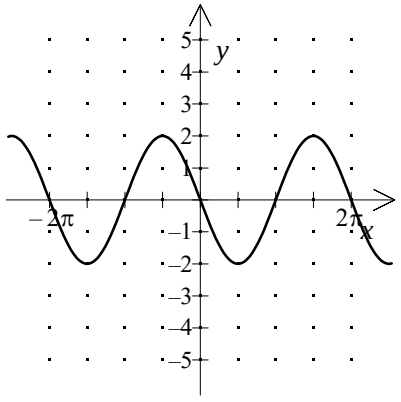
[8] _____

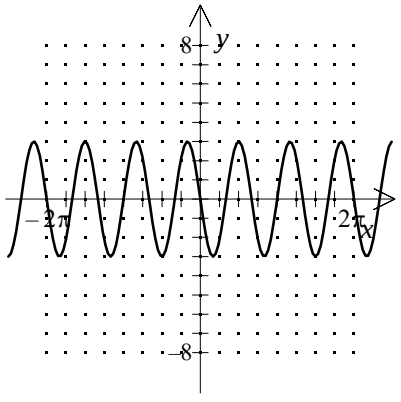
9. An electromagnetic wave is modeled by the function $y = 5 \sin 2x$. Sketch a graph of this function.

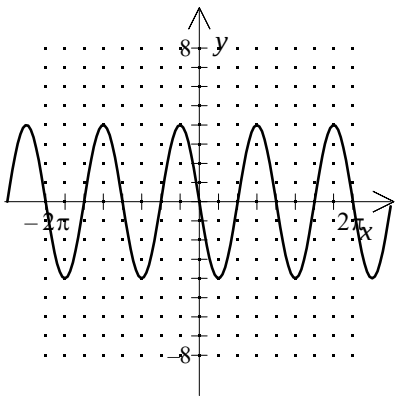
[9] _____

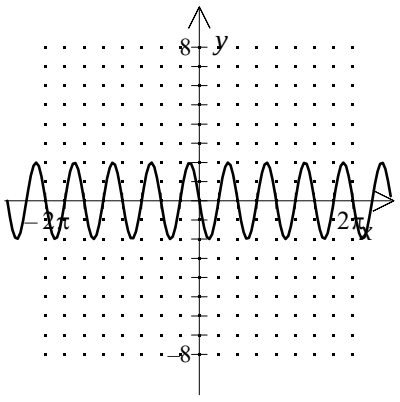
[1] 

[2] 

[3] 

[4] 

[5] 

[6] 

[7] D

[8] B

[9] Check students' graphs. Amplitude should be 5, period should be π, so a maximum is at $\left(\frac{\pi}{4}, 5\right)$, x-intercepts are $(0, 0)$, $\left(\frac{\pi}{2}, 0\right)$, and $(\pi, 0)$ and a minimum is at $\left(\frac{3\pi}{4}, -5\right)$.