

3.4

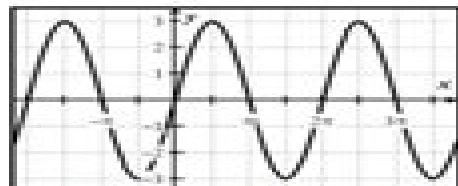
Sine and Cosine
Function Graphs
Practice Set 1

Name _____

Date _____ Period _____

Problems 1 – 4, find the amplitude and period of each sine curve. Write an equation for each curve, and describe the transformation from the parent function.

1.



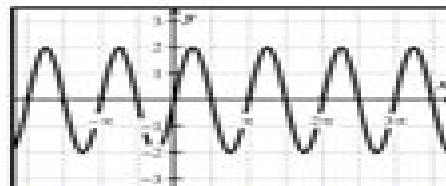
$$|A| = 3$$

$$\text{Period: } 2\pi$$

$$y = 3 \sin x \quad (x, y) \rightarrow (x, 3y)$$

vertical dilation factor: 3

2.



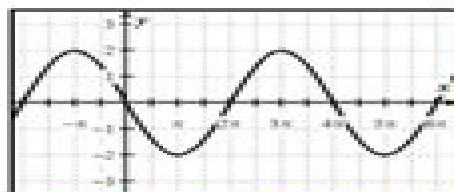
$$|A| = 2$$

$$\text{Period: } \pi$$

$$y = 2 \sin(2x) \quad (x, y) \rightarrow (\frac{1}{2}x, 2y)$$

vertical dilation factor: 2
horizontal dilation factor: $\frac{1}{2}$

3.



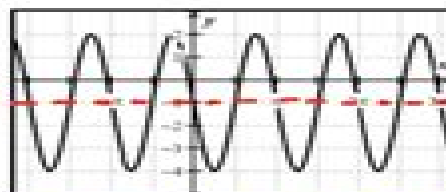
$$|A| = 2$$

$$\text{Period: } 4\pi$$

$$y = -2 \sin(\frac{1}{2}x) \quad (x, y) \rightarrow (2x, -2y)$$

reflect @ x-axis; vertical dilation: 2 Horizontal dilation: 2

4.



$$|A| = 3$$

$$\text{Period: } \pi$$

midline:
 $y = -1$

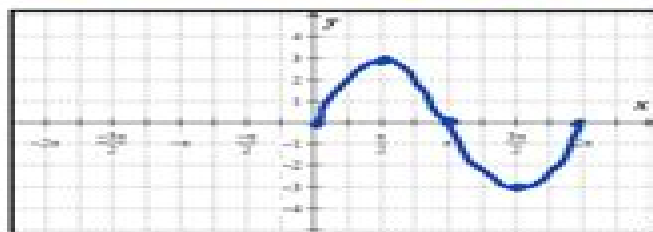
$$y = -3 \sin(2x) - 1 \quad (x, y) \rightarrow (\frac{1}{2}x, 2y - 1)$$

reflect @ x-axis; vertical shift down: 1
dilation: 3; horizontal dilation: $\frac{1}{2}$

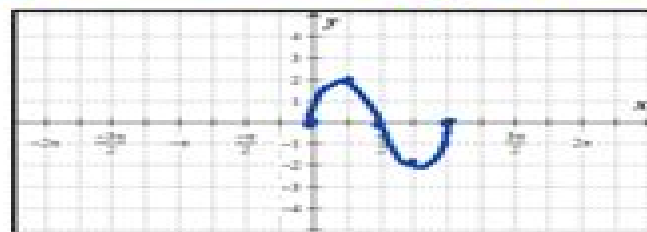
Problems 5 – 8, sketch one cycle of each sine curve. Assume $a > 0$. Write an equation for each graph.

5. amplitude 3; period 2π

$$y = 3 \sin(x) \quad (x, y) \rightarrow (x, 3y)$$

6. amplitude 2; period π

$$y = 2 \sin(2x) \quad (x, y) \rightarrow (\frac{1}{2}x, 2y)$$



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