

3.4

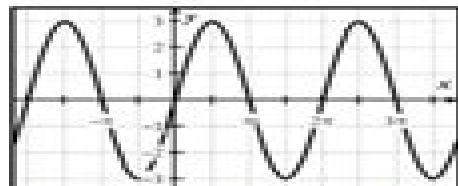
Sine and Cosine
Function Graphs
Practice Set 1

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.



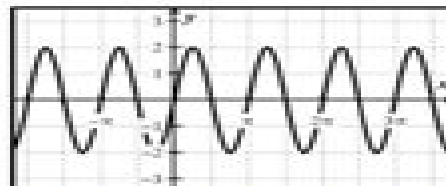
$$|A| = 3$$

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

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

vertical dilation factor: 3

2.



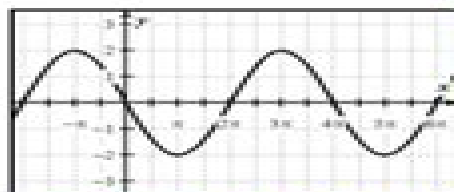
$$|A| = 2$$

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

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

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

3.



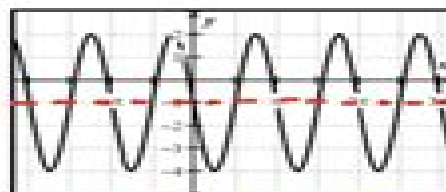
$$|A| = 2$$

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

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

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

4.



$$|A| = 3$$

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

midline:
 $y = -1$

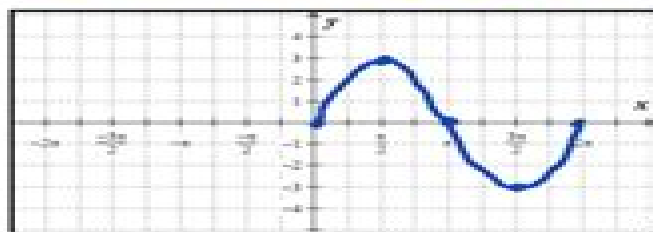
$$y = -3 \sin(2x) - 1 \quad (x, y) \rightarrow (\frac{1}{2}x, 2y - 1)$$

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

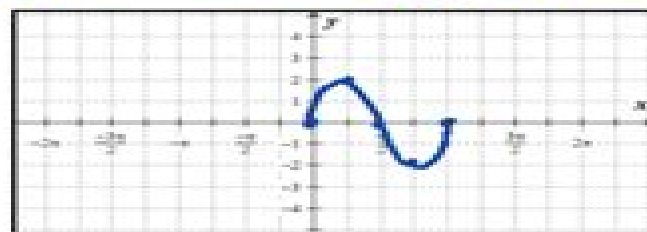
Problems 5 – 8, sketch one cycle of each sine curve. Assume $a > 0$. Write an equation for each graph.

5. amplitude 3; period 2π

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

6. amplitude 2; period π

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



3 2 Practice Families Of Graphs

Rolf Edward Moeckel



3 2 Practice Families Of Graphs:

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Judgments of the Privy Council on Appeals from India David Sutherland (barrister-at-law.), Great Britain. Privy Council. Judicial Committee, 1878 **A Guide to Kansas Mushrooms** Bruce Horn, Richard Kay, Dean Abel, 1993 This book is

a guide to the fungi of Kansas It will familiarize you with some of the most common and some of the most beautiful of the state s fungal flora But it is designed to do much more It will introduce you to a variety of ways to enjoy mushrooms For most people they are things of beauty and wonder to be discovered unexpectedly on a walk in the woods some try to preserve and communicate their sense of awe on film others only want to find delectable morsels for the table a few strive to find rarities or to identify mysterious strangers This book will help you take the first steps in all these approaches to the world of mushrooming **British Medical Journal** ,1890

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