

3.4

Sine and Cosine
Function Graphs
Practice Set 1

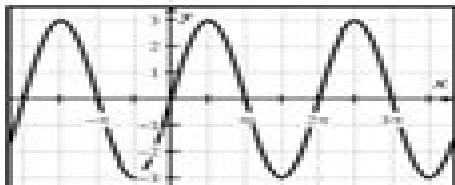
Name _____

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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.



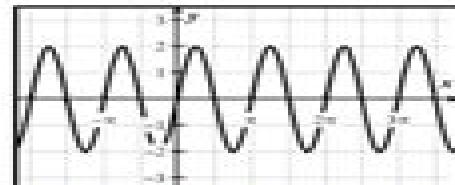
$$|A| = 3$$

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

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

vertical dilation factor: 3

2.



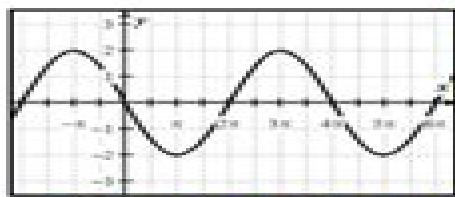
$$|A| = 2$$

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

$$y = 2 \sin(2x) \quad (x,y) \rightarrow (2x, 2y)$$

vertical dilation factor: 2
horizontal dilation factor: $1/2$

3.



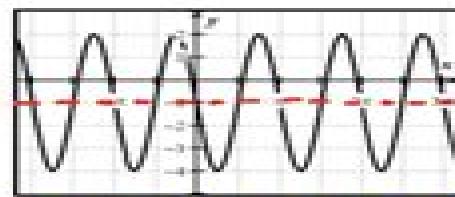
$$|A| = 2$$

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

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

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

4.



$$|A| = 3$$

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

midline:
 $y = -1$

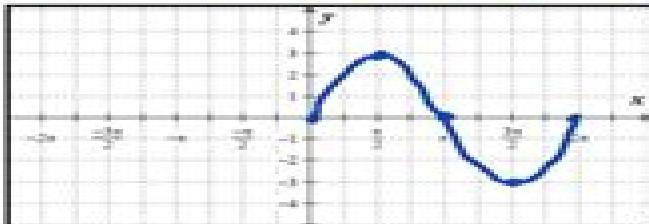
$$y = -3 \sin(2x) - 1 \quad (x,y) \rightarrow \left(\frac{1}{2}x, 2y + 1\right)$$

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

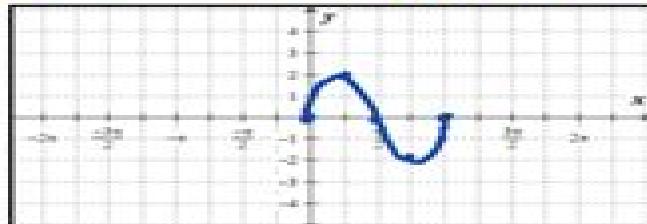
Problems 5 – 8, sketch one cycle of each sine curve. Assume $a > 0$. Write an equation for each graph.

5. amplitude 3; period 2π

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

6. amplitude 2; period π

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



3 2 Practice Families Of Graphs

Rolf Edward Moeckel

3 2 Practice Families Of Graphs:

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Table of Contents 3 2 Practice Families Of Graphs

1. Understanding the eBook 3 2 Practice Families Of Graphs
 - The Rise of Digital Reading 3 2 Practice Families Of Graphs
 - Advantages of eBooks Over Traditional Books
2. Identifying 3 2 Practice Families Of Graphs
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 3 2 Practice Families Of Graphs
 - User-Friendly Interface
4. Exploring eBook Recommendations from 3 2 Practice Families Of Graphs
 - Personalized Recommendations
 - 3 2 Practice Families Of Graphs User Reviews and Ratings

- 3 2 Practice Families Of Graphs and Bestseller Lists
- 5. Accessing 3 2 Practice Families Of Graphs Free and Paid eBooks
 - 3 2 Practice Families Of Graphs Public Domain eBooks
 - 3 2 Practice Families Of Graphs eBook Subscription Services
 - 3 2 Practice Families Of Graphs Budget-Friendly Options
- 6. Navigating 3 2 Practice Families Of Graphs eBook Formats
 - ePUB, PDF, MOBI, and More
 - 3 2 Practice Families Of Graphs Compatibility with Devices
 - 3 2 Practice Families Of Graphs Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 3 2 Practice Families Of Graphs
 - Highlighting and Note-Taking 3 2 Practice Families Of Graphs
 - Interactive Elements 3 2 Practice Families Of Graphs
- 8. Staying Engaged with 3 2 Practice Families Of Graphs
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 3 2 Practice Families Of Graphs
- 9. Balancing eBooks and Physical Books 3 2 Practice Families Of Graphs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 3 2 Practice Families Of Graphs
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 3 2 Practice Families Of Graphs
 - Setting Reading Goals 3 2 Practice Families Of Graphs
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 3 2 Practice Families Of Graphs
 - Fact-Checking eBook Content of 3 2 Practice Families Of Graphs
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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