



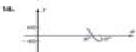
In Problems 15 and 16, a half-cycle of a sinusoid is shown. Find a particular equation for the sinusoid.



25.

In Problems 17 and 18, a quarter-cycle of a simusoid is shown. Find a particular equation for the simusoid.





- If the simusoid in Problem 17 is extended to θ = 300°, what is the value of ρ? If the simusoid is extended to θ = 5678°, is the point on the graph above or below the simusoidal axis? How far?
- 26. If the simulated in Problem 18 is extended to the left in # = 2.5°, what is the value of y? If the simulation is extended to # = 528°, is the point on the graph above or below the simulatidal axio? How that?

For Problems 21 and 22, sketch the sinusuid described and write a particular equation for it. Clock the equation on your grapher to make sure it produces the graph you sketched.

- The period equals 7.7°, the amplitude is 3 units, the phase displacement (one y = cos #) equals #°, and the sinuscoidal axis is at y = 4 units.
- 22. The frequency is <sup>1</sup>/<sub>1</sub> cycle per degree, the amplitude equals 2 units, the phase displacement (for y ≃ cos θ) equals − 3°, and the sinusoidal axis is at y = ~5 units.

8c. 
$$y = -30$$
 at  $\theta = 8^{\circ}$ ;  
 $y = -38.8778...$  at  $\theta = 1776^{\circ}$ 

Problems 9-18 provide practice in writing equations from graphs that show complete cycles or parts of cycles. This is another critical skill required to solve the real-world problems in Section 6-7. A blackline master for these problems is available in the Instructor's Resource Book.

9. 
$$y = 1.45 + 1.11 \sin 10(9 + 16^\circ)$$

**10.** 
$$y = 30 - 20\cos 360(\theta - 0.3^\circ)$$

11. 
$$y = 1.7\cos(\theta - 30^\circ)$$

12. 
$$y = 5000\cos 4500 + 1^\circ$$
)

Problems 13 and 24 use different variables to name the horizontal and vertical axes. When you discuss homework, make sure students have used the correct variables and not just the usual variables y and 6.

13. 
$$r = 7 \cos 3\alpha$$

15. 
$$y = 35 + 15 \sin 900$$

16. 
$$y = 7 - 3 \sin 4.50$$
.

17. 
$$y = 4 - 9 \sin \frac{\pi}{4} (\theta + 60^{\circ})$$

Problems 19 and 20 require students to find y-values corresponding to given angle values.

$$y = 2.0579$$
, 1.9420, below the simusoidal axis at  $\theta = 5678$ °

28. 
$$y = -32.3879...$$
 at  $\theta = 2.5\%$ ,  $y = 60$ , on the sirrusoidal axis, at  $\theta = 528^\circ$ 

Problems 21 and 22 require students to write equations for strusoids based on verbal descriptions.

**6a.**  $y = 8 - 10\cos 900 - 4^\circ$ )

6c. 
$$y = 2.1221...$$
 at  $\theta = 10^{\circ}$ ;  $y = 6.4356...$  at  $\theta = 455^{\circ}$ 

Ta. 
$$y = -3 + 5\cos 300 - 10^{\circ}$$
).

See page 1002 for answers to Problems 21 and 22.

Section 6-2: General Sinuscidal Graphs

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# **Chapter 1 Applications Of Trigonometric Functions**

**L** Cohen

<b>Chapter 1 Applications</b>	Of Trigonometric	<b>Functions:</b>
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The book delves into Chapter 1 Applications Of Trigonometric Functions. Chapter 1 Applications Of Trigonometric Functions is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chapter 1 Applications Of Trigonometric Functions, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Chapter 1 Applications Of Trigonometric Functions
  - Chapter 2: Essential Elements of Chapter 1 Applications Of Trigonometric Functions
  - Chapter 3: Chapter 1 Applications Of Trigonometric Functions in Everyday Life
  - Chapter 4: Chapter 1 Applications Of Trigonometric Functions in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, the author will provide an overview of Chapter 1 Applications Of Trigonometric Functions. This chapter will explore what Chapter 1 Applications Of Trigonometric Functions is, why Chapter 1 Applications Of Trigonometric Functions is vital, and how to effectively learn about Chapter 1 Applications Of Trigonometric Functions.
- 3. In chapter 2, the author will delve into the foundational concepts of Chapter 1 Applications Of Trigonometric Functions. This chapter will elucidate the essential principles that must be understood to grasp Chapter 1 Applications Of Trigonometric Functions in its entirety.
- 4. In chapter 3, the author will examine the practical applications of Chapter 1 Applications Of Trigonometric Functions in daily life. This chapter will showcase real-world examples of how Chapter 1 Applications Of Trigonometric Functions can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Chapter 1 Applications Of Trigonometric Functions in specific contexts. The fourth chapter will explore how Chapter 1 Applications Of Trigonometric Functions is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Chapter 1 Applications Of Trigonometric Functions. This chapter will summarize the key points that have been discussed throughout the book.
  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 1 Applications Of Trigonometric Functions.

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