



Name \_\_\_\_\_ Period \_\_\_\_\_

# Trigonometric Ratios

Draw a picture and solve the story problem using trigonometric ratios.

**Example:** An eagle spotted a mouse 20 feet below at an angle of 42 degrees with the horizon. If the eagle flies along its line of sight, how far will it have to fly to reach its prey?



$$\sin 42^\circ = \frac{20}{x}$$

$$x = \frac{20}{\sin 42^\circ} = 29.889 = 29.9 \text{ feet}$$

1. A 20-foot ladder is leaning against a wall. The base of the ladder is 3 feet from the wall. What angle does the ladder make with the ground?



$$\cos x = \frac{3}{20}$$

$$x = 81.4^\circ$$

2. How tall is a bridge if a 6-foot-tall person standing 100 feet away can see the top of the bridge at an angle of 30 degrees to the horizon?



$$\tan 30^\circ = \frac{x}{100}$$

$$57.7 + 6$$

$$100 \tan 30^\circ = x$$

$$57.7 = x$$

$$63.7$$

3. An air force pilot must descend 1500 feet over a distance of 9000 feet to land smoothly on an aircraft carrier. What is the plane's angle of descent?



$$\tan x = \frac{1500}{9000}$$

$$x = 9.5^\circ$$

4. In a movie theater 150 feet long, the floor is sloped so there is a difference of 30 feet between the front and back of the theater. What is the angle of depression?



$$\sin x = \frac{30}{150}$$

$$x = 11.5^\circ$$



$$\tan x = \frac{30}{150}$$

$$x = 11.3^\circ$$

5. A bow hunter is perched in a tree 15 feet off the ground. If he sees his prey on the ground at an angle of 30 degrees, how far will the arrow have to travel to hit his target?



$$\sin 30^\circ = \frac{15}{x}$$

$$x \sin 30^\circ = 15$$

$$x = \frac{15}{\sin 30^\circ}$$

$$x = 30$$

# Lesson 8 2 Practice A Trigonometric Ratios Answers Key

**AN Whitehead**



## **Lesson 8 2 Practice A Trigonometric Ratios Answers Key:**

This book delves into Lesson 8 2 Practice A Trigonometric Ratios Answers Key. Lesson 8 2 Practice A Trigonometric Ratios Answers Key is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Lesson 8 2 Practice A Trigonometric Ratios Answers Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Lesson 8 2 Practice A Trigonometric Ratios Answers Key
    - Chapter 2: Essential Elements of Lesson 8 2 Practice A Trigonometric Ratios Answers Key
    - Chapter 3: Lesson 8 2 Practice A Trigonometric Ratios Answers Key in Everyday Life
    - Chapter 4: Lesson 8 2 Practice A Trigonometric Ratios Answers Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Lesson 8 2 Practice A Trigonometric Ratios Answers Key. The first chapter will explore what Lesson 8 2 Practice A Trigonometric Ratios Answers Key is, why Lesson 8 2 Practice A Trigonometric Ratios Answers Key is vital, and how to effectively learn about Lesson 8 2 Practice A Trigonometric Ratios Answers Key.
  3. In chapter 2, the author will delve into the foundational concepts of Lesson 8 2 Practice A Trigonometric Ratios Answers Key. This chapter will elucidate the essential principles that need to be understood to grasp Lesson 8 2 Practice A Trigonometric Ratios Answers Key in its entirety.
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  5. In chapter 4, the author will scrutinize the relevance of Lesson 8 2 Practice A Trigonometric Ratios Answers Key in specific contexts. The fourth chapter will explore how Lesson 8 2 Practice A Trigonometric Ratios Answers Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Lesson 8 2 Practice A Trigonometric Ratios Answers Key. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lesson 8 2 Practice A Trigonometric Ratios Answers Key.

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