



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?



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

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

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

$$x = 30$$

# Holt Geometry Lesson 8 2 Trigonometric Ratios Answer

**Tao Wei**



**Holt Geometry Lesson 8 2 Trigonometric Ratios Answer:**

**Holt Algebra 1 2003** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003  
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*Geometry, Grade 10*

The Top Books of the Year Holt Geometry Lesson 8 2 Trigonometric Ratios Answer The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Holt Geometry Lesson 8 2 Trigonometric Ratios Answer : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Holt Geometry Lesson 8 2 Trigonometric Ratios Answer : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Holt Geometry Lesson 8 2 Trigonometric Ratios Answer : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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