



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?



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

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

$$57.7 = x$$

$$57.7 + 6$$

$$63.7$$

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?



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

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

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

$$x = 30$$

Practice A Trigonometric Ratios Lesson 8 2 Answer Key

Richard Bailey



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Math Advantage, Grade 8 Grace M. Burton, Harcourt Brace, 1998-05-22 **Pre-Algebra, Lesson Planning Guide**, 2002-05 Pre-algebra Phares G. O'Daffer, 1992 Pre algebra text with accompanying workbook and teacher's materials provides a program in mathematics which is a transition from arithmetic to algebra Includes decimals number theory equations percent ratio area and volume statistics and square roots **Resources in Education**, 1992-04 *McDougal Littell Passport to Algebra and Geometry* Ron Larson, 1999 **The Software Encyclopedia**, 1988 Christian Home Educators' Curriculum Manual Cathy Duffy, 1995-07 Cathy Duffy draws upon her many years of home education experience both in teaching and researching curriculum to bring us the most thorough and useful book available on teaching teenagers at home **Indian Journal of Power and River Valley Development**, 1996 *Instructor*, 1965 *School Library Journal*, 1986 Resources in Education, 1992 Joseph's 487 Questions to Trigonometry Joseph Jones, 2013-02 A comprehensive review of trigonometry this book covers topics like the inverses trigonometric identities trigonometric ratios the law of sine and the law of cosine The book contains 487 questions that are convenient to practice Each chapter has an explanation practice questions and answer keys The content is high quality *Study Guide with Practice Tests for Gustafson and Frisk's Plane Trigonometry* Jerry L. Frang, 1985 *Tricks of Trigonometry* Indrajeet Kumar, 2021-06-10 Book Features and Details You can easily memorize all the formulae of trigonometric ratios and identities by using trick You can easily memorize trigonometric table from 0 to 90 by using trick You can easily evaluate the values of trigonometric ratios of more than 90 by using trick You can solve all the problems of height and distance by using trick You can easily memorize all the formulae of elementary trigonometry by using trick You can easily draw the graph of trigonometric ratios by using an algorithm You can easily solve the problems of general solution by using graph and trick You can easily memorize all the formulae of inverse trigonometric function by using trick All the problems of this book are challenge for you to solve in first attempt Hints and solutions are also given in this book This book is preferred for high school college all types of competitions and teachers Book Description In this book 100% formulae of trigonometric ratios and identities are based on trick which can be easily memorized In this book given a hexagon image trick with the help of which the ratios and identities of trigonometry can be easily remembered In this book also given a left hand image trick with the help of which the value of trigonometric ratios between 0 to 90 can be easily remembered In this book also given a trick SOH CAH TOA in height and distance with the help of which mostly question of height and distance can be solved easily In the first and second exercises the questions asked in the competitions examination have been inserted which will prove to be a very useful in terms of competition examination the first and second exercises are also useful for different board exams This book is panacea for students of high school general competitions teachers 11th 12th 12th pass out students IIT JEE SAT and Olympiad In this book all the formulae of trigonometric ratios and identities are 100% based on trick which can be easily memorized In this book given a

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