

HW 68: Trig Ratio Worksheet

Answer Key

The trig. ratios, *sine*, *cosine*, and *tangent* are based on properties of right triangles. The function values depend on the measure of the angle.

$$\text{sine } \theta = \sin \theta = (\text{side opposite } \theta)/\text{hypotenuse}$$

$$\text{cosine } \theta = \cos \theta = (\text{side adjacent } \theta)/\text{hypotenuse}$$

$$\text{tangent } \theta = \tan \theta = (\text{side opposite } \theta)/(\text{side adjacent } \theta)$$

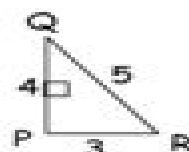
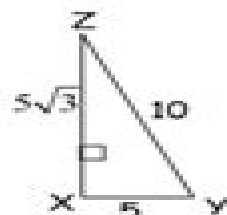


In triangle ABC,

$$\sin A = a/c, \cos A = b/c, \text{ and } \tan A = a/b.$$



Calculate the trig ratios based on the pictures below:



$$1) \sin Y = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$

$$7) \sin R = \frac{4}{5}$$

$$2) \cos Y = \frac{5}{10} = \frac{1}{2}$$

$$8) \cos R = \frac{3}{5}$$

$$3) \tan Y = \frac{5\sqrt{3}}{5} = \sqrt{3}$$

$$9) \tan R = \frac{4}{3}$$

$$4) \sin Z = \frac{5}{10} = \frac{1}{2}$$

$$10) \sin Q = \frac{3}{5}$$

$$5) \cos Z = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$

$$11) \cos Q = \frac{4}{5}$$

$$6) \tan Z = \frac{5}{5\sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$12) \tan Q = \frac{3}{4}$$

Convert the following fractions to decimals, rounding your answer to the ten-thousandths place:

$$13) \frac{5}{10} = .5000$$

$$14) \frac{5\sqrt{3}}{10} = .8660$$

$$15) \frac{5\sqrt{3}}{5} = 1.7321$$

Convert the following to decimals. Do not round! Leave answers precise, but in decimal form.

$$16) \frac{4}{5} = .8$$

$$17) \frac{3}{5} = .6$$

$$18) \frac{4}{3} = 1.\bar{3}$$

Use your calculator to find the inverse sine, "sin⁻¹" (2nd then SIN on most calculators) of the values above. Write the results here:

$$13) \underline{30^\circ} \quad 14) \underline{60^\circ} \quad 15) \underline{\text{ERROR}} \quad 16) \underline{53.13^\circ} \quad 17) \underline{38.87^\circ} \quad 18) \underline{\text{ERROR}}$$

Lesson 8 2 Practice Trigonometric Ratios Answers

Grace M. Burton, Harcourt Brace



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Math Advantage, Grade 8 Grace M. Burton,Harcourt Brace,1998-05-22

Prentice Hall Math Course 3 Study Guide and Practice Workbook 2004c Prentice-Hall, Inc,2003-12 A math text creates a path for students one that should be easy to navigate with clearly marked signposts built in footholds and places to stop and assess progress along the way Research based and updated for today's classroom Prentice Hall Mathematics is that well constructed path An outstanding author team and unmatched continuity of content combine with timesaving support to help teachers guide students along the road to success

Algebra 2 Chapter 13 Resource Masters McGraw-Hill

Staff,2002-05 [A Study Guide to be Used with USAFI Course D 188: Trigonometry, a High School Course](#) United States.

Department of Defense,1967 **Teaching Secondary and Middle School Mathematics** Daniel J. Brahier,2020-03-09

Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now

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