

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.

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

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

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

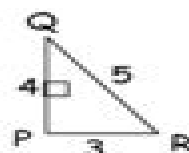
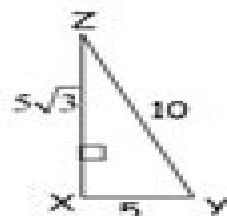


In triangle ABC,

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



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} " (2^{nd} then SIN on most calculators) of the values above. Write the results here:

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

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Yan Bai



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Pre-Algebra, Lesson Planning Guide ,2002-05 *Challenging Learning Through Feedback* James Nottingham,Jill Nottingham,2017-01-20 Using feedback to enhance learning Feedback has the potential to dramatically improve student learning if done correctly In fact providing high quality feedback is one of the most critical roles of a teacher Challenging Learning Through Feedback provides educators with the tools they need to craft high quality feedback and avoid common mistakes Readers will learn How to know when feedback is and isn t working How to design feedback so that it answers three essential questions Practical strategies for crafting Learning Intentions and Success Criteria Strategies templates and rubrics for providing feedback How to teach students to give high quality feedback to themselves and others **Resources in Education** ,1992-04 Jacaranda Maths Quest 12 Essential Mathematics Units 3 & 4 for Queensland, 2e learnON and Print Mark Barnes,2025-11-24 Instructor ,1965 **Challenging Learning Through Feedback (International Edition)** James Nottingham,Jill Nottingham,2017-02-21 Using feedback to enhance learning Feedback has the potential to dramatically improve student learning if done correctly In fact providing high quality feedback is one of the most critical roles of a teacher Challenging Learning Through Feedback provides educators with the tools they need to craft high quality feedback and avoid common mistakes Readers will learn How to know when feedback is and isn t working How to design feedback so that it answers three essential questions Practical strategies for crafting Learning Intentions and Success Criteria Strategies templates and rubrics for providing feedback How to teach students to give high quality feedback to themselves and others *School and Community* ,1965 *School Library Journal* ,1986 Indian Journal of Power and River Valley Development ,1996 **The Software Encyclopedia** ,1988 *Resources in Education* ,1992 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 The Mathematics Teacher ,1950 *Class 8 Math Questions and Answers PDF* Arshad Iqbal, The Class 8 Math Quiz Questions and Answers PDF Questions and Answers PDF Grade 8 Math Competitive Exam Questions Chapter 1 7 Practice Tests Class 8 Math Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 8 Math Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 8 Math Quiz PDF book helps to practice test questions from exam prep notes The Grade 8 Math Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 8 Math Objective Questions and Answers PDF Free Download chapter 1 a book covers solved common questions and answers on chapters Coordinate geometry indices and standard form linear inequalities Math applications mensuration arc length sector area and radian measure trigonometric ratios trigonometry and trigonometry formulas worksheets with

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