

7-4 Practice

Similarity in Right Triangles

Identify the following in right $\triangle QRS$.



1. the hypotenuse \overline{QR}
2. the segments of the hypotenuse $\overline{QT}, \overline{TR}$
3. the altitude \overline{QS}
4. the segment of the hypotenuse adjacent to leg \overline{QS} \overline{QT}

Write a similarity statement relating the three triangles in the diagram.

5. $\triangle BAC \sim \triangle ADC$
 $\triangle BAC \sim \triangle BDA$
 $\triangle ADC \sim \triangle BDA$

6. $\triangle PNO \sim \triangle PQQ$
 $\triangle PNO \sim \triangle QNO$
 $\triangle PQQ \sim \triangle QNO$

7. $\triangle LJK \sim \triangle LKM$
 $\triangle LJK \sim \triangle MJK$
 $\triangle LKM \sim \triangle MJK$

8. $\triangle FDE \sim \triangle FDH$
 $\triangle FDE \sim \triangle HDE$
 $\triangle FDH \sim \triangle HDE$

9. $\triangle XYZ \sim \triangle XAZ$
 $\triangle XYZ \sim \triangle XAY$
 $\triangle XAZ \sim \triangle XAY$

10. $\triangle HGI \sim \triangle HGX$
 $\triangle HGI \sim \triangle XGI$
 $\triangle HGX \sim \triangle XGI$

Algebra Find the geometric mean of each pair of numbers.

- | | | |
|---------------|---------------|---------------|
| 11. 9 and 4 | 12. 14 and 6 | 13. 9 and 30 |
| 14. 25 and 49 | 15. 4 and 120 | 16. 9 and 18 |
| 17. 16 and 64 | 18. 5 and 25 | 19. 12 and 16 |

Practice 8 4 Similarity In Right Triangles

N Colangelo



Practice 8 4 Similarity In Right Triangles:

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coverage of the trigonometry skills required in most math tests About the Authors Carolyn Wheeler Hawthorne NJ teaches middle school and upper school mathematics at the Nightingale Bamford School in New York City Educated at Marymount Manhattan College and the University of Massachusetts Amherst she has taught math and computer technology for 30 years to students from preschool through college She is a member of National Council of Teachers of Mathematics NCTM and the Association of Teachers in Independent Schools *Geometry: Concepts and Applications, Practice Workbook* McGraw-Hill,2000-06-01 Includes one practice worksheet for each lesson in the student edition **Common Core Standards and Mathematics Grades 6 -12: Strategies for Student Success** Toby Karten,2013-01-01 Common Core Standards Mathematics Strategies for Student Success Grades 6 12 is an easy access 6 page tri fold laminated guide by Toby Karten This classroom tool is designed to help middle and high school teachers understand the organization and application of the Common Core State Standards for Mathematics CCSS M which define the grade specific knowledge and procedural skills students are expected to achieve in their study of mathematics Karten an expert on inclusion notes that the standards apply to all students including students with disabilities receiving special education services and provides ideas for helping diverse students meet grade level standards This comprehensive guide defines key terms such as domains and clusters and provides multiple quick reference charts including ones that that depict Grades K 5 domains Grades 6 8 domains Grades 9 12 Categories The Standards for Mathematical Practice CCSSMP and grade specific student scenarios The Standards for Mathematical Content CCSS Math Content HS The guide also offers ten tips for connecting math standards to students lives interests with detailed examples provided for applying each tip to various content standards In addition a valuable list of additional online and print resources for secondary teachers is provided **Your Mathematics Standards Companion, High School** Frederick L. Dillon,W. Gary Martin,Basil M. Conway IV,Marilyn E. Strutchens,2018-02-06 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics

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