

6.2 EXERCISES

CONCEPTS

1. A right triangle with an angle θ is shown in the figure.



- (a) Label the "opposite" and "adjacent" sides of θ and the hypotenuse of the triangle.
 (b) The trigonometric functions of the angle θ are defined as follows:

$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}} \quad \tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

- (c) The trigonometric ratios do not depend on the size of the triangle. This is because all right triangles with the same acute angle θ are _____.

2. The reciprocal identities state that

$$\csc \theta = \frac{1}{\sin \theta} \quad \sec \theta = \frac{1}{\cos \theta} \quad \cot \theta = \frac{1}{\tan \theta}$$

SKILLS

- 3–8 ■ Trigonometric Ratios Find the exact values of the six trigonometric ratios of the angle θ in the triangle.

3.



4.



5.



6.



7.



8.



- 9–10 ■ Trigonometric Ratios Find (a) $\sin \alpha$ and $\cos \beta$, (b) $\tan \alpha$ and $\cot \beta$, and (c) $\sec \alpha$ and $\csc \beta$.

9.



10.



- 11–14 ■ Using a Calculator Use a calculator to evaluate the expression. Round your answer to five decimal places.

11. (a) $\sin 22^\circ$

(b) $\cot 23^\circ$

12. (a) $\cos 37^\circ$

(b) $\csc 48^\circ$

13. (a) $\sec 13^\circ$

(b) $\tan 51^\circ$

14. (a) $\csc 10^\circ$

(b) $\sin 46^\circ$

- 15–20 ■ Finding an Unknown Side Find the side labeled x . In Exercises 17 and 18 state your answer rounded to five decimal places.

15.



16.



17.



18.



19.



20.



- 21–22 ■ Trigonometric Ratios Express x and y in terms of trigonometric ratios of θ .

21.



22.



- 23–28 ■ Trigonometric Ratios Sketch a triangle that has acute angle θ , and find the other five trigonometric ratios of θ .

23. $\tan \theta = \frac{1}{2}$

24. $\cos \theta = \frac{1}{3}$

25. $\cot \theta = 1$

26. $\tan \theta = \sqrt{3}$

27. $\csc \theta = \frac{1}{4}$

28. $\cot \theta = \frac{1}{2}$

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M Walker



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Bright & Brainy: 6th Grade Practice Stephanie Kuligowski, Karen Kroeter, 2012-06-01 This classroom resource encourages sixth grade students to reinforce their knowledge of mathematical and language arts grade level skills Focusing on specific Common Core Standards this resource is designed to be robust and relevant to the real world helping students prepare themselves for life beyond their educational careers Students will gain regular practice through the quick activities found in each book Perfect for additional practice in the classroom or at home The book contains a Teacher Resource CD with PDFs of the activity pages 208pp 6 Practice Tests for the Digital SAT, 2026 The Princeton Review, 2025-05-06 EXTRA PREP TO ACHIEVE AN EXCELLENT SCORE We all know that practice makes perfect 6 Practice Tests for the Digital SAT 2026 gives you plenty of practice with the SAT s higher level math questions and reading comprehension passages Includes detailed answer explanations for each question plus online practice that s just like the real digital SAT Practice Your Way to Excellence 4 full length practice tests in the book comprising hundreds of practice questions 2 additional full length online only adaptive tests in our exclusive Digital SAT practice interface which directly mimics the look and functionality you ll see on test day Easier and harder modules for each section that act as bonus extra practice drills Instant Score Reports for the online tests provide detailed analysis of your areas of strength and weakness Work Smarter Not Harder Assess your test performance with self scoring reports Diagnose and learn from your mistakes with in depth answer explanations See The Princeton Review s techniques in action and solidify your Digital SAT knowledge *ACT*, 2006 *Geometry* Ron Larson, 1995 **Kaplan ACT 2008 Premier Program (w/ CD-ROM)** Kaplan, 2008-01-01 Five full length practice tests are included in this test prep set three in the book and two on the CD ROM The CD also features eight subject area tests two for each topic *Kaplan ACT* Kaplan, Kaplan Educational Center Staff, 2001-07 Hundreds of practice questions including two full length practice tests additional practice for each section and proven strategies to help students score higher Complete preparation for the ACT through 2003 **ACT 2003** Kaplan, 2002-12-24 A preparation guide to the ACT including diagnostic models and practice tests *Kaplan ACT 2000* Kaplan, 1999-07 In this exciting package Kaplan s ACT guide comes with the 1 bestselling ACT CD ROM and consists of Two full length practice tests and two additional practice tests for each of the Math English Reading and Science sections Four tutorials practice lessons score analysis and more A personalized online Web site that gives each student a calendar checklist and admissions information on colleges nationwide *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

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