

8-3 Skills Practice Special Right Triangles

Find x .

1.



$$25\sqrt{2}$$

2.



$$8.5\sqrt{2} \text{ or } \frac{17\sqrt{2}}{2}$$

3.



$$48\sqrt{2}$$

4.



$$50\sqrt{2}$$

5.



$$100\sqrt{2}$$

6.



$$44\sqrt{2}$$

7. Determine the length of the leg of 45° - 45° - 90° triangle with a hypotenuse length of $2613\sqrt{2}$
8. Find the length of the hypotenuse of a 45° - 45° - 90° triangle with a leg length of 50 centimeters.

$$50\sqrt{2} \text{ cm}$$

Find x and y .

9.



$$22; 11\sqrt{3}$$

10.



$$12; 4\sqrt{3}$$

11.



$$15; 10\sqrt{3}$$

12.



$$15; 15\sqrt{3}$$

13.



$$42; 21$$

14.



$$78; 26\sqrt{3}$$

15. An equilateral triangle has an altitude length of 27 feet. Determine the length of a side of the triangle.
16. Find the length of the side of an equilateral triangle that has an altitude length of $11\sqrt{3}$ feet.

$$22$$

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Grace M. Burton, Harcourt Brace



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Table of Contents Practice 8 2 Special Right Triangles Form G

1. Understanding the eBook Practice 8 2 Special Right Triangles Form G
 - The Rise of Digital Reading Practice 8 2 Special Right Triangles Form G
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 2 Special Right Triangles Form G
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Practice 8 2 Special Right Triangles Form G
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 2 Special Right Triangles Form G
 - Personalized Recommendations
 - Practice 8 2 Special Right Triangles Form G User Reviews and Ratings
 - Practice 8 2 Special Right Triangles Form G and Bestseller Lists
5. Accessing Practice 8 2 Special Right Triangles Form G Free and Paid eBooks

- Practice 8 2 Special Right Triangles Form G Public Domain eBooks
 - Practice 8 2 Special Right Triangles Form G eBook Subscription Services
 - Practice 8 2 Special Right Triangles Form G Budget-Friendly Options
6. Navigating Practice 8 2 Special Right Triangles Form G eBook Formats
- ePub, PDF, MOBI, and More
 - Practice 8 2 Special Right Triangles Form G Compatibility with Devices
 - Practice 8 2 Special Right Triangles Form G Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Practice 8 2 Special Right Triangles Form G
 - Highlighting and Note-Taking Practice 8 2 Special Right Triangles Form G
 - Interactive Elements Practice 8 2 Special Right Triangles Form G
8. Staying Engaged with Practice 8 2 Special Right Triangles Form G
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice 8 2 Special Right Triangles Form G
9. Balancing eBooks and Physical Books Practice 8 2 Special Right Triangles Form G
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice 8 2 Special Right Triangles Form G
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice 8 2 Special Right Triangles Form G
- Setting Reading Goals Practice 8 2 Special Right Triangles Form G
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice 8 2 Special Right Triangles Form G
- Fact-Checking eBook Content of Practice 8 2 Special Right Triangles Form G
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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