

## HONORS GEOMETRY REVIEW (7.4-7.6)

$$H = L\sqrt{2} \quad H = 2S \quad L = 5\sqrt{3}$$

### SPECIAL RIGHT TRIANGLES (45-45-90 and 30-60-90)

Find the value of each variable. Write your answers in simplest radical form.

1.



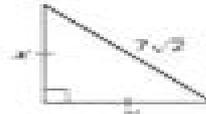
$$y = 4\sqrt{3} \cdot \sqrt{2}$$

$$y = 12\sqrt{6}$$

$$x = 2 \cdot 4\sqrt{3}$$

$$x = 8\sqrt{3}$$

2.



$$7\sqrt{2} = x\sqrt{2}$$

$$x = 7$$

$$y = 7$$

3.



$$5\sqrt{3} = 2y$$

$$y = \frac{5\sqrt{3}}{2}$$

$$x = \frac{5\sqrt{3}}{2} \cdot \sqrt{3}$$

$$x = 7.5$$

4.



$$x = 2 \cdot 12\sqrt{3}$$

$$x = 24\sqrt{3}$$

$$y = 12\sqrt{3} \cdot \sqrt{2}$$

$$y = 36\sqrt{6}$$

5.



$$x = 12$$

$$12 = 5\sqrt{3}$$

$$\frac{12}{5} = 5$$

$$5 = \frac{12\sqrt{3}}{3} = 4\sqrt{3}$$

$$y = 2 \cdot 4\sqrt{3}$$

$$y = 8\sqrt{3}$$

6.



$$6\sqrt{3} = 2y$$

$$y = 3\sqrt{3}$$

$$y = 3\sqrt{3} \cdot \sqrt{2}$$

$$y = 9\sqrt{6}$$

$$x = 9\sqrt{2}$$

### SINE, COSINE AND TANGENT

Find the value of each variable to the nearest tenth.

7.



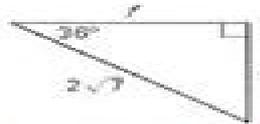
$$\tan 53 = \frac{22}{a}$$

$$a = 16.6$$

$$\sin 53 = \frac{22}{b}$$

$$b = 27.5$$

8.



$$\sin 36 = \frac{e}{2\sqrt{7}}$$

$$e = 3.1$$

$$\cos 36 = \frac{f}{2\sqrt{7}}$$

$$f = 4.3$$

9.



$$\tan 58 = \frac{g}{3\sqrt{11}}$$

$$g = 15.9$$

$$\cos 58 = \frac{3\sqrt{11}}{h}$$

$$h = 18.8$$

# Geometry Honors Extra Practice

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## **Table of Contents Geometry Honors Extra Practice**

1. Understanding the eBook Geometry Honors Extra Practice
  - The Rise of Digital Reading Geometry Honors Extra Practice
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Honors Extra Practice
  - 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 Geometry Honors Extra Practice
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Honors Extra Practice
  - Personalized Recommendations
  - Geometry Honors Extra Practice User Reviews and Ratings
  - Geometry Honors Extra Practice and Bestseller Lists

5. Accessing Geometry Honors Extra Practice Free and Paid eBooks
  - Geometry Honors Extra Practice Public Domain eBooks
  - Geometry Honors Extra Practice eBook Subscription Services
  - Geometry Honors Extra Practice Budget-Friendly Options
6. Navigating Geometry Honors Extra Practice eBook Formats
  - ePub, PDF, MOBI, and More
  - Geometry Honors Extra Practice Compatibility with Devices
  - Geometry Honors Extra Practice Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometry Honors Extra Practice
  - Highlighting and Note-Taking Geometry Honors Extra Practice
  - Interactive Elements Geometry Honors Extra Practice
8. Staying Engaged with Geometry Honors Extra Practice
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geometry Honors Extra Practice
9. Balancing eBooks and Physical Books Geometry Honors Extra Practice
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geometry Honors Extra Practice
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Geometry Honors Extra Practice
  - Setting Reading Goals Geometry Honors Extra Practice
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Honors Extra Practice
  - Fact-Checking eBook Content of Geometry Honors Extra Practice
  - 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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