

Find the area of each triangle. Round to the nearest tenth.

10.



$$\tan 67 = \frac{24}{x}$$

$$x = 13.3$$

$$A = .5(24)(13.3) \\ = \boxed{159.6 \text{ ft}^2}$$

11.



$$\tan 38 = \frac{32}{x}$$

$$x = 48.6$$

$$A = .5(28)(48.6) \\ = \boxed{924.1 \text{ in}^2}$$

Find the perimeter of each triangle. Round to the nearest tenth.

12.



$$\tan 55 = \frac{47}{x}$$

$$x = 32.9$$

$$\sin 55 = \frac{47}{y}$$

$$y = 57.4$$

$$P = \boxed{137.3 \text{ in}}$$

13.



$$\sin 66 = \frac{10}{x}$$

$$x = 10.9$$

$$\tan 66 = \frac{10}{y}$$

$$y = 4.5$$

$$P = \boxed{25.4 \text{ ft}}$$

Find $\sin A$, $\cos A$, $\tan A$, $\sin B$, $\cos B$, and $\tan B$. Write each answer as a fraction and as a decimal. Round to four decimal places, if necessary.

14.



$$\sin A = \frac{20}{83} = .4285$$

$$\cos A = \frac{77}{83} = .9099$$

$$\tan A = \frac{20}{77} = .4675$$

$$\sin B = \frac{77}{83} = .9099$$

$$\cos B = \frac{20}{83} = .4285$$

$$\tan B = \frac{77}{20} = 2.1391$$

15.



$$\sin A = \frac{14}{34} = .4706$$

$$\cos A = \frac{30}{34} = .8824$$

$$\tan A = \frac{14}{30} = .5333$$

$$\sin B = \frac{30}{34} = .8824$$

$$\cos B = \frac{14}{34} = .4706$$

$$\tan B = \frac{30}{14} = 1.875$$

Geometry Honors Apex

Arturo Cuomo



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Table of Contents Geometry Honors Apex

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

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