

8-4 Practice**Trigonometry**

Find $\sin L$, $\cos L$, $\tan L$, $\sin M$, $\cos M$, and $\tan M$. Express each ratio as a fraction and as a decimal to the nearest hundredth.



1. $l = 15$, $m = 36$, $n = 39$

$$\sin L = \frac{5}{13} \approx 0.38;$$

$$\cos L = \frac{12}{13} \approx 0.92;$$

$$\tan L = \frac{5}{12} \approx 0.42;$$

$$\sin M = \frac{12}{13} \approx 0.92;$$

$$\cos M = \frac{5}{13} \approx 0.38;$$

$$\tan M = \frac{12}{5} \approx 2.4$$

2. $l = 12$, $m = 12\sqrt{3}$, $n = 24$

$$\sin L = \frac{1}{2} = 0.50;$$

$$\cos L = \frac{\sqrt{3}}{2} \approx 0.87;$$

$$\tan L = \frac{1}{\sqrt{3}} \text{ or } \frac{\sqrt{3}}{3} \approx 0.58;$$

$$\sin M = \frac{\sqrt{3}}{2} \approx 0.87;$$

$$\cos M = \frac{1}{2} = 0.50;$$

$$\tan M = \sqrt{3} \approx 1.73$$

Find x . Round to the nearest hundredth.

3.



22.55

4.



25.36

5.



24.15

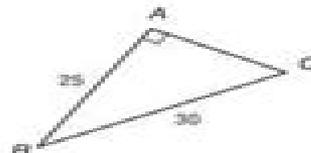
Use a calculator to find the measure of $\angle B$ to the nearest tenth.

6.



60.3°

7.



33.6°

8.



79.7°

9. **GEOGRAPHY** Diego used a theodolite to map a region of land for his class in geomorphology. To determine the elevation of a vertical rock formation, he measured the distance from the base of the formation to his position and the angle between the ground and the line of sight to the top of the formation. The distance was 43 meters and the angle was 36° . What is the height of the formation to the nearest meter?

31 m



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**Arnold R. Steffensen, Lee Murphy
Johnson**



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Table of Contents Geometry Resource Answers Practice B Geometry

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

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