

Name _____

Triumphant Triangulation: Navigating Oblique Triangles with Trigonometry

Open-Ended Response Answer Key

1. The law of sines might be useful in navigation or surveying when determining distances or locations based on angle measurements from known reference points.
2. Trigonometry is important in solving problems involving oblique triangles because it provides a systematic way to relate the angles and sides of the triangle, allowing for accurate calculations and solutions.
3. A strategy for determining which trigonometric function to use when solving a problem with an oblique triangle might involve analyzing the given information and identifying which sides and angles are known and unknown, then choosing the appropriate function based on the known information.
4. Steps to check the accuracy of calculations when solving an oblique triangle problem using trigonometry might include verifying the relationships between side lengths and angles using the law of sines or the law of cosines, and checking for consistency and reasonableness in the calculated values.

