

Examples & Questions Examples 1

Q: What Strategy can you use to keep the process organized when writing the trigonometric functions?

Q: What relationships can you use to check for accuracy after writing the ratios?

Examples 2

Q: How can you use the values in one trigonometric ratio to determine the lengths of an unknown side of a right triangle?

Examples 3

Q: What assumptions must be made about the positioning of the truck and the building in order to answer the question?

Q: How do you determine the correct trigonometric function to use?

Q: How do you solve an equation involving a trigonometric function?

Examples 4

Part A:

Q: What properties are specific to an isosceles right triangle?

Q: What do you notice about the trigonometric ratios for θ in the isosceles right triangle?

Part B:

Q: What do you know about special right triangles and their side lengths that you can use to evaluate trigonometric functions?

Examples 5

Q: What is the result when you divide 1 by a fraction?

Q: Why is it useful to understand that the two acute angles of a right triangle are complementary?

When using given information about trigonometric functions from a right triangle, what strategies can you use to verify relationships?

Practice and Problem Solving

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Lesson Quiz 7.1