

Algebra I Class Worksheet #3 Unit 12 page 1 _____

Solve each of the following problems algebraically. Show your work neatly organized.

1. One number is one more than two times another. Their product is 15. What are the numbers?

2. One number is equal to the square of another. Their sum is 20. What are the numbers?

3. The length of a rectangle is one inch less than twice its width. The area of the rectangle is 36 square inches. What are the dimensions of the rectangle?

Algebra I Class Worksheet #3 Unit 12 page 2

Solve each of the following problems algebraically. Show your work neatly organized.

4. The length of the hypotenuse of a right triangle is 3 inches more than twice the length of the shorter leg. The longer leg is 7 inches longer than the shorter leg. Find the length of each side.

5. Find two consecutive odd integers whose product is one less than three times their sum.

6. A rectangular garden 30 feet long and 20 feet wide is surrounded by a rock path of uniform width. If the area of the path is 336 square feet, then what is its width?