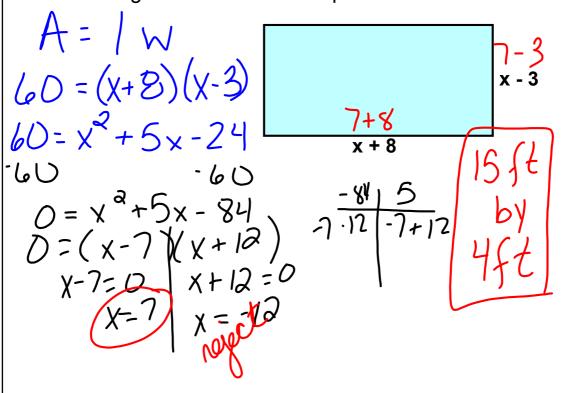
DO NOW: Given the diagram below, find the dimensions of the rectangle if the area is 60 square feet.



Apr 8-3:48 PM

Homework Answers

Workbook Page 476 # 1 - 4 & Page 477 # 5- 7

1)0

5) no real solutions

2) 2

6) 2

3) 1

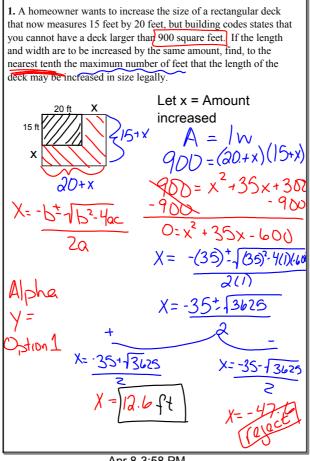
7) 1

4) 0

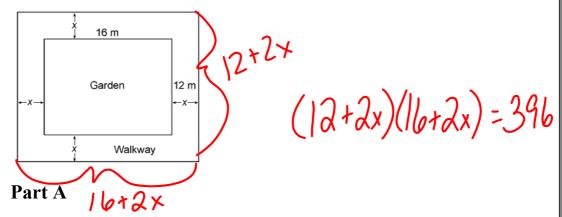
Solving Word Problems Steps

- 1) Read and Underline in the question
- 2) Draw a diagram if necessary.
- 3) Write a let statement
- 4) Set up a quadratic equation
- 5) Determine which method to use to solve
- 6) Solve your equations
- 7) Make sure your answer the question & LABEL!

Mar 28-12:02 PM



2. A rectangular garden measuring 12 meters by 16 meters is to have a walkway installed around it with a width of x meters, as shown in the diagram below. Together, the walkway and garden have an area of 396 square meters.



Write an equation that can be used to find x, the width of the walkway.

Apr 8-3:58 PM

Part B

Describe how your equation from Part A models the situation

I know Area of a rectangle is length times width. The walkway goes all the way around the garden so I needed to add 2x to both the length and the width. My new dimensions became 2x + 12 and 2x + 16. Once I had my new dimensions I was able to substitute into the Area formula.