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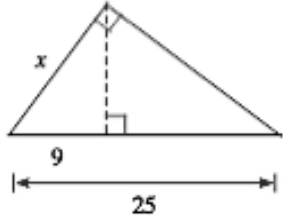
125

HOMWORK 9.1

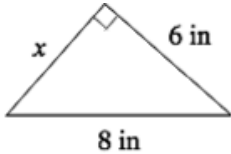
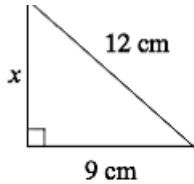
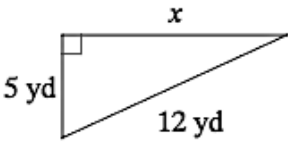
Secondary Math II

Turned in On Time (4 pts.) <input type="checkbox"/>	0A. (2 pt.) With the given sides lengths: 8, 9, and 10, would the triangle be right, acute, or obtuse?
	0B. (2 pt.) With the given sides lengths: 3, 4, and 5, would the triangle be right, acute, or obtuse?

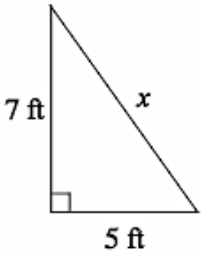
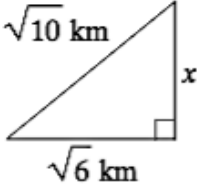
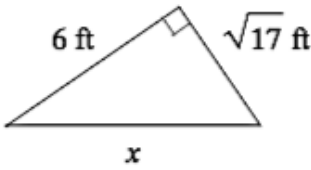
Review

1. (1 pt.) The volume of a cube is 125 cm^3 . Determine the side length of the cube.	2. (1 pt.) Solve for the value of x . $(x-3)^2 + 2 = 0$	3. (1 pt.) Find the missing value. 
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Find the missing side of the right triangle.

Classroom Exercise #4 (3 pts.) <input type="checkbox"/>	4A. (1 pt.) 
	4B. (1 pt.) 
	4C. (1 pt.) 

Use the Pythagorean Theorem to find the missing side.

5. (1pt.) 	6. (1pt.) 	7. (1pt.) 
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Determine whether the triangle described would be right, acute, or obtuse.

Classroom Exercise #8

(3 pts.)



8A. (1 pt.) Side lengths: 6, 8, 9

8B. (1 pt.) Side lengths: 6, 8, 10

8C. (1 pt.) Side lengths: 3, 3, 5

Determine whether the triangle described would be right, acute, or obtuse.

9. (1 pt.) Side Lengths: $\sqrt{7}$, $\sqrt{13}$, $\sqrt{6}$

10. (1 pt.) Side Lengths $\sqrt{6}$, $\sqrt{108}$, $\sqrt{12}$

11. (1 pt.) Side Lengths: 5, $\sqrt{119}$, 12

12. (1 pt.) A right triangle has side lengths a, b, and c, where c is the hypotenuse. Solve for the missing side.

$$a = 3$$

$$b = \sqrt{37}$$

$$c =$$

13. (1 pt.) A right triangle has side lengths a, b, and c, where c is the hypotenuse. Solve for the missing side.

$$a =$$

$$b = 8$$

$$c = 9$$

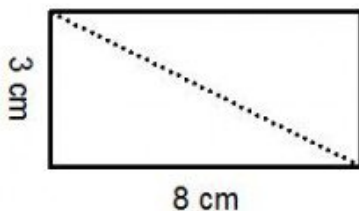
14. (1 pt.) A right triangle has side lengths a, b, and c, where c is the hypotenuse. Solve for the missing side.

$$a = 6$$

$$b =$$

$$c = \sqrt{145}$$

15. (1 pt.) Find the diagonal length of the rectangle below.



16. (2 pt.) John wants to buy a new TV. He measures the space he has available for the TV and determines the height should not exceed 3 **feet** and the width should not exceed 4 **feet**. TV screens are measured by their diagonal lengths. The TVs available in his local store are 48, 55, or 65 **inches**. Assuming John wants to buy the biggest TV that will fit, what size of TV should he buy? Explain your answer.