5.

Name: \_

Date: \_

- On level ground, a person 6 feet tall casts a shadow of 8 feet. At the same time, a nearby tree casts a shadow of 20 feet. Find the number of feet in the height of the tree.
- equations?  $y = x^2$ 
  - y = -2x + 15
  - A. (-3, 9)
- B. (5, 25)

Which is a solution for the following system of

- C. (3,9)
- D. (-5,3)

- A 10-foot flagpole casts a shadow of 15 feet on 2. level ground. A 6-foot man is standing next to the flagpole. Find the number of feet in the length of the shadow cast by the man
- Solve the following system of equations and check:

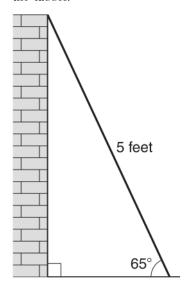
$$y = x^2 - 4x + 3$$
$$y = 2x - 2$$

A child who is 4 feet tall casts a 6-foot shadow at the same time that a nearby tree casts a 30-foot shadow. What is the height, in feet, of the tree?

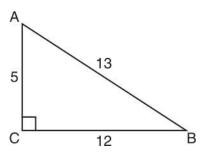
- Which is a point of intersection of the graphs of y = 4 - x and  $y = x^2 - x$ ?
- A. (3, 1)
- B. (-1,5)
- C. (-2, 6)
- D. (4,0)

- The graphs of the equation  $y = x^2 5x + 6$  and x + y = 6 are drawn on the same set of axes. At which point do the graphs intersect?
  - A. (4,2) B. (5,1) C. (3,3) D. (2,4)

As shown in the diagram below, a ladder 5 feet 8. long leans against a wall and makes an angle of 65° with the ground. Find, to the nearest tenth of a foot, the distance from the wall to the base of the ladder.



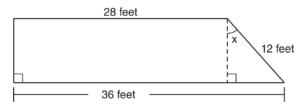
The diagram below shows right triangle ABC



Which ratio represents the tangent of  $\angle ABC$ ?

- A.  $\frac{5}{13}$  B.  $\frac{5}{12}$  C.  $\frac{12}{13}$  D.  $\frac{12}{5}$

10. A trapezoid is shown below.



Calculate the measure of angle x, to the *nearest* tenth of a degree.

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Last Final Review Geometry A 05/31/2016

1. Answer: 15 2. 9 Answer: 3. Answer: 20 4. C Answer: 5. Answer: C 6. (1,0) and (5,8)Answer: 7. Answer: A 8. Answer: 2.1 9. Answer: В 10.

41.8

Answer: