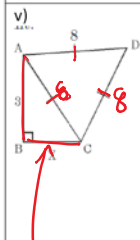
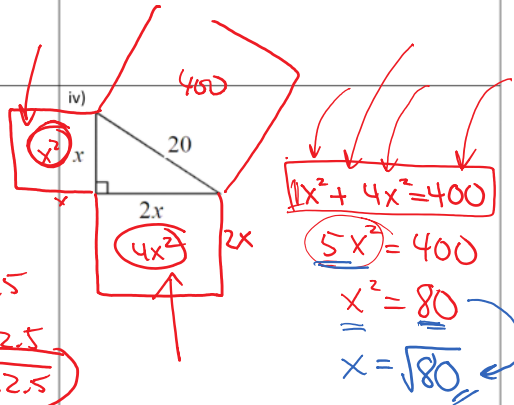
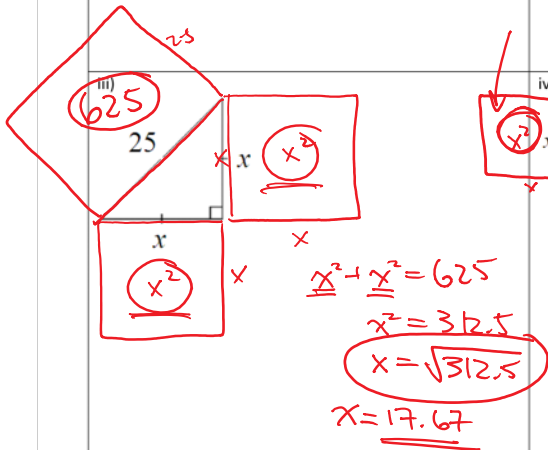
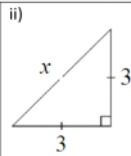
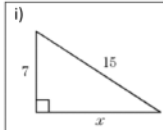


SOL HW 7.5

March 6, 2017 10:39 AM

Name: _____ HW 7.5 Solving Problems with the Pythagorean Thm Date: _____

1. Solve for "x" in each of the following diagrams. Show all your work and steps:



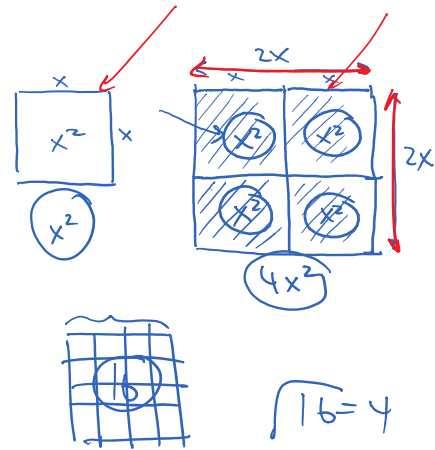
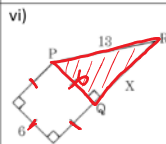
$$x^2 + 3^2 = 8^2$$

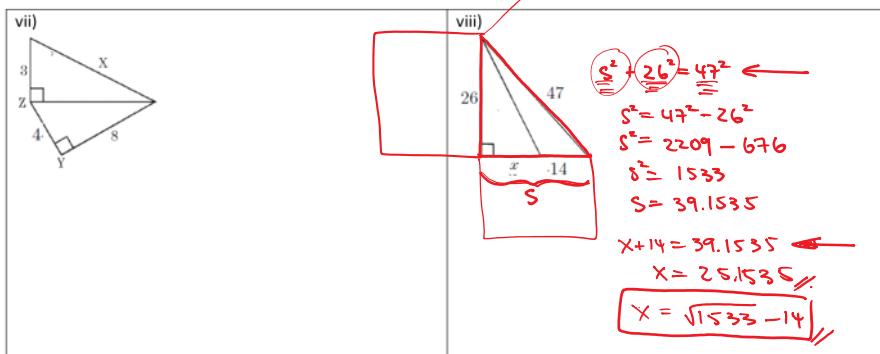
$$x^2 = 8^2 - 3^2$$

$$x^2 = 64 - 9$$

$$x^2 = 55$$

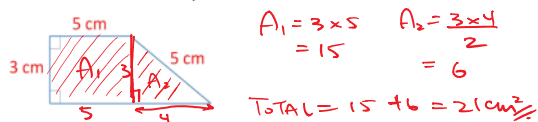
$$x = \sqrt{55}$$



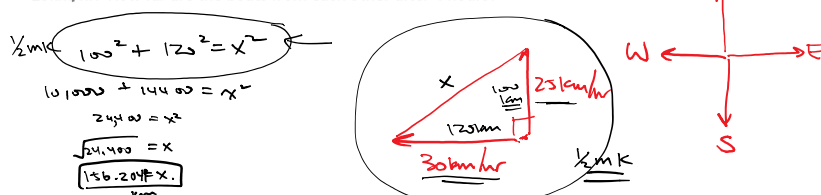


2. A 52 foot ladder leaned against the side of building. If the bottom of the ladder is 20 feet from the base of the wall, how high up the side of the building does the ladder reach?

3. What is the area of the trapezoid?



4. Two boats are sailing away from the same port. The 1st boat sails West at 30 km/hr, the 2nd boat sails North at 25 km/hr. How far are the boats from each other after 4 hours?



5. Given the two squares below with areas 784 m^2 and 16 m^2 , what is the distance from points "A" to "B"?

