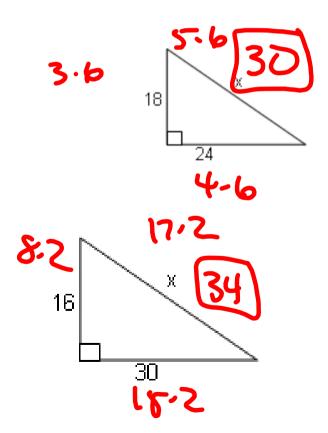
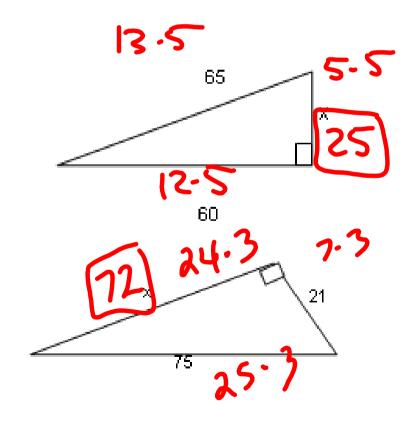
Pythagorean Theorem $a^2 + b^2 = c^2$

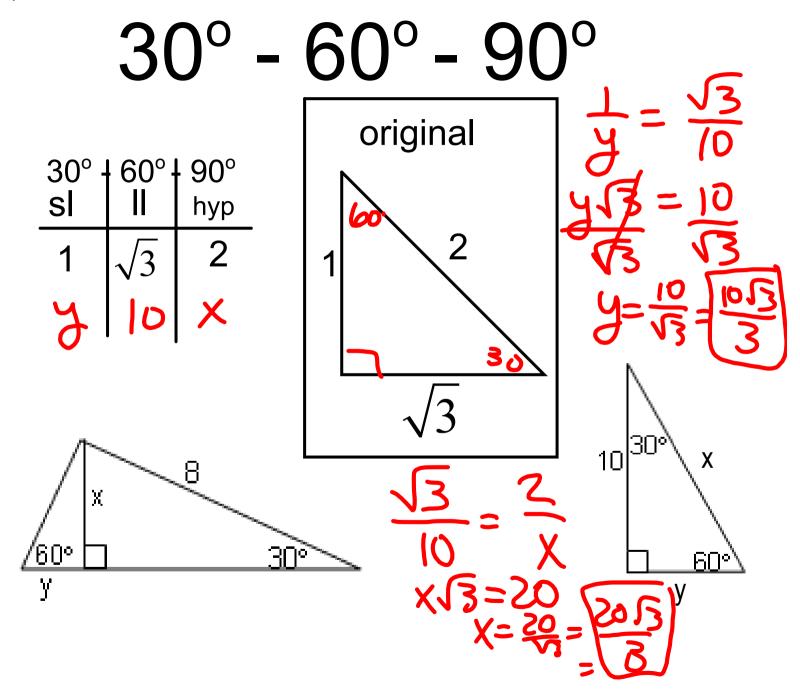
$$a^2 + b^2 = c^2$$

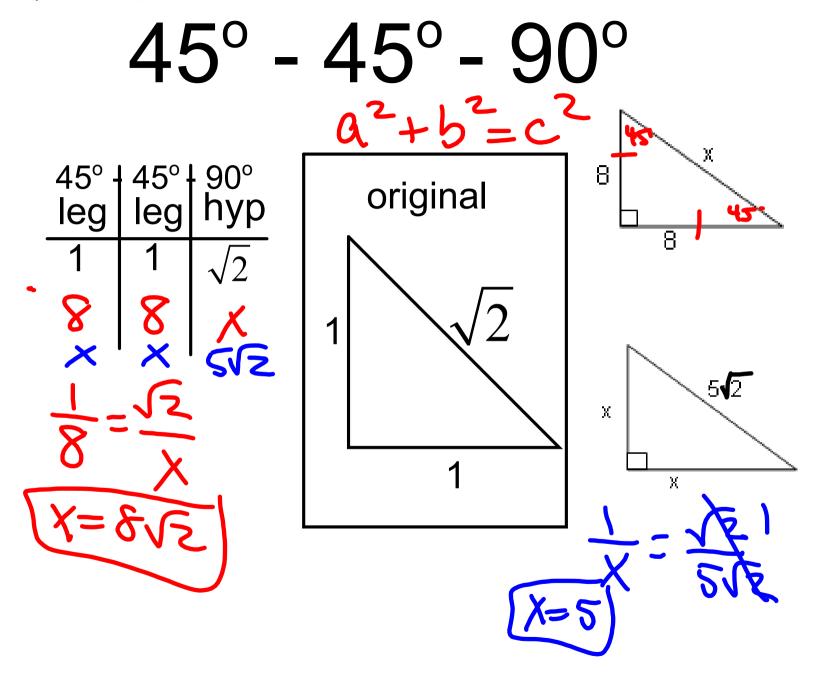
Triples

Solve for x and state the triple used.









Simplifying Radicals

$$3\sqrt{45} + 3\sqrt{80}$$

$$\sqrt{175}$$

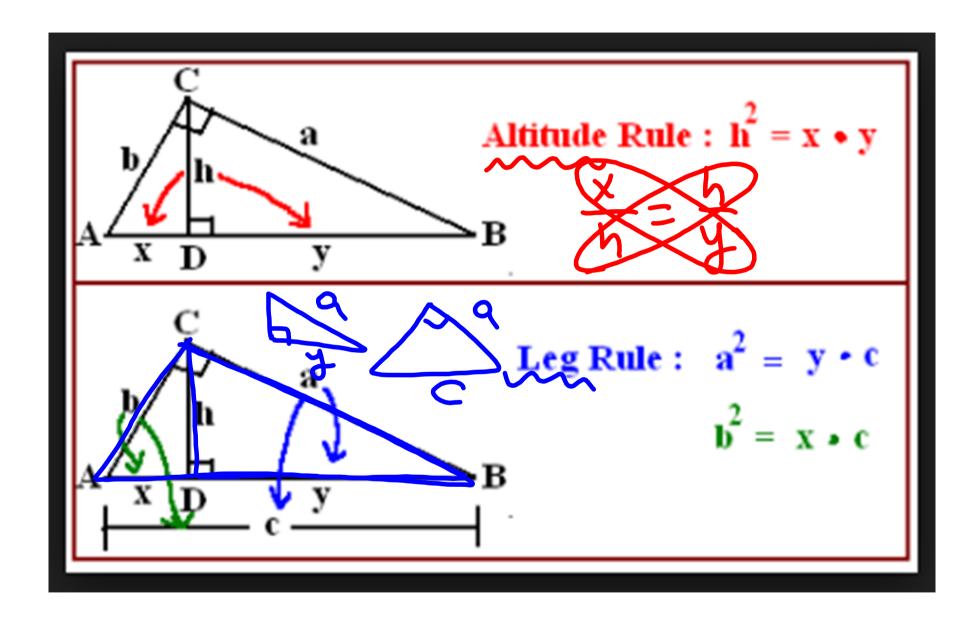
$$(9\sqrt{5})^{2} = 405$$

$$(9\sqrt{5})^{2} = 405$$

$$(9\sqrt{5})^{2} = 8$$

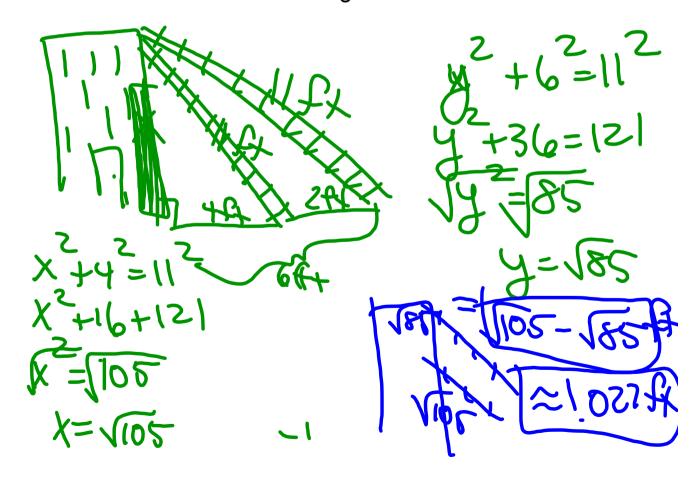
$$(9\sqrt{5}$$

$$\sqrt{5} * \sqrt{5} = 225$$
 $\sqrt{5}$
 $\sqrt{5}$
 $\sqrt{5}$
 $\sqrt{3}$
 $\sqrt{3}$



Application

The base of one ladder is 4 ft from the foot a building. Another ladder is next to the first ladder, but it's base is 6 ft from the base of the building. If both ladders reach 11 ft up the building, what is the difference between the heights of the ladders?



Homework

9.1 : pg. 468: 3, 7, 11 - 17 (o), 21, 31, 44 - 47

9.2: pg. 475: 3, 7, 9, 11, 17, 27

9.3: pg. 482:3, 5, 9, 11, 13, 19, 23, 27, 31, 46 - 49