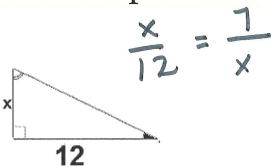
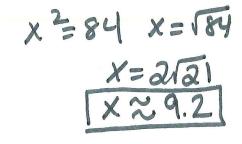
Final Exam Prep Practice

Triangles Unit Examples

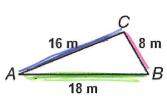
1. Find x.







2. If $\triangle ABC \sim \triangle PQR$, find the perimeter of $\triangle PQR$. Find X

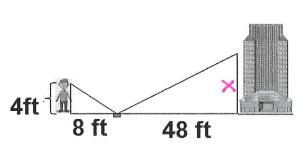


$$\frac{\times}{8} = \frac{15}{18}$$

$$= \frac{15}{18} + 13.3 + 15$$

x=6.6=4.7 y=13.3

3. Wilson places a mirror on the ground between himself and his office building. He stands so that he can see the top window on the 20th floor. The mirror is 8ft from his feet and 48 ft from the base of the office building. Wilson's eyes are 4 ft above the ground. How high is the window when rounding, in meters, to the nearest tenth?



$$\frac{x}{4} = \frac{48}{8}$$

 $8x = 192$
 $x = 24f + high$

4. A ladder is leaning against the building. How high up does the ladder reach if the ladder is 13 ft long and placed 5 ft from the base of the building?

$$X^{2}+5^{2}=13^{2}$$

 $X^{2}=14+1$
 $X=12+1$

