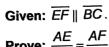
## \*Key will be on my website Similarity Quiz 2 Review

Know this proof. ALL Steps + justifications!



Prove:  $\frac{AE}{EB} = \frac{AF}{FC}$ 

LA≅LA Reflexive Pop. LAEF & LEBC corresponding

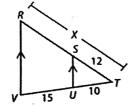
DAEF ~ DABC by AA~

$$\frac{AE+EB}{Ae} = \frac{AF+FC}{AF}$$

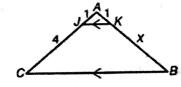
$$\frac{Ae}{Ae} + \frac{EB}{Ae} = \frac{AF}{AF} + \frac{FC}{AF}$$

What is the value of x in these pictures?

1.

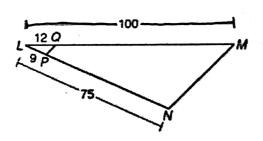


2.

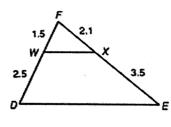


Is each set of lines parallel? How do you know?

3. 
$$\overline{QP} \parallel \overline{MN}$$



 $\overline{WX} \parallel \overline{DE}$ 



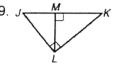
5. A person who is 6 feet tall casts a shadow of 3.2 feet. A building at the same time of day casts a shadow of 18.5 feet. How tall is the building? Draw a picture.

Find the point, P, that divides each directed line segment in the ratio provided.

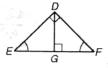
- 6. A (-1, 4) B (-9, 0); 1 to 3
- 7. A (7, -3) B (-7, 4); 3 to 4 8. A (-1, 5) B (7, -3); 7 to 1

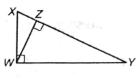


Write a similarity statement comparing the three triangles in each diagram.



10.

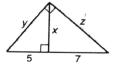




Write in simplest radial form.

Find x, y, and z. Round to the nearest tenth if necessary.

12.





V14.

