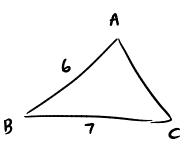
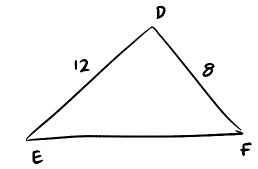


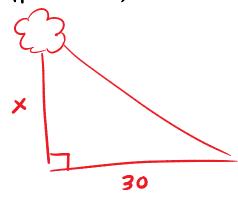
#7 △ ABC~△DEF Find: AC and EF

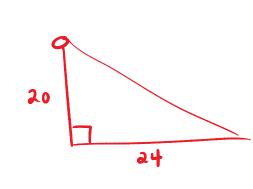
$$\frac{6}{12} = \frac{AC}{8} \qquad \frac{6}{12} = \frac{7}{EF}$$

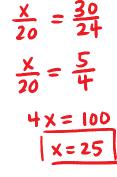


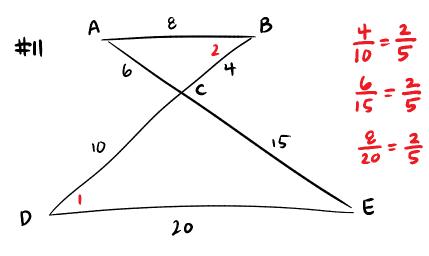


#9 A shadow problem: Mannertink observed that a tree was casting a 30-m shadow. A nearby flagpole was casting a 24-m shadow. If the flagpole was 20m high, how tall was the tree

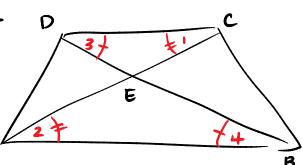








Prove: AE.CD = EC.AB



1. Trap. ABCO w/ bases AB and CD

$$6. \ \underline{AE} = \underline{AB}$$

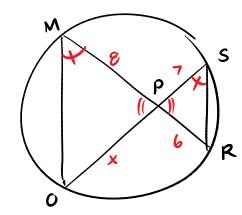
7. AE · CD = EC · AB

1. Given

c AA~

6 CSSTP

7. Mean Extremes Theorem



$$\frac{7}{8} = \frac{6}{x}$$

$$7x = 48$$

$$x = \frac{48}{7} \text{ or } \boxed{6\frac{6}{7}}$$

#19 Given: BE / CD
AB = 6

 $\frac{\varepsilon}{c}$

$$\frac{6}{8} = \frac{9}{x}$$

$$6x = 72$$