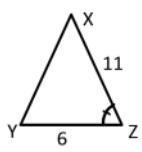


8. Is  $\triangle XYZ \sim \triangle NOP$ ? If yes, how do you know?

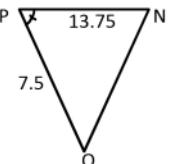


$$P = 15 + 15 + 23 = 53$$

$$A = \frac{1}{2}(23)(9) = \frac{207}{2} = 103.5$$

$\angle N \cong \angle P$

$$X = 108$$



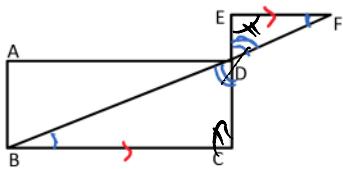
$$\frac{6}{7.5} = \frac{4}{5} \checkmark \quad \angle Z \cong \angle P$$

$$\frac{11}{13.75} = \frac{4}{5} \checkmark$$

Yes, SAS ~

9. Given:  $\overline{EF} \parallel \overline{BC}$

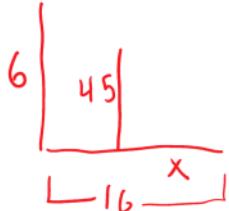
Prove:  $\triangle EFD \sim \triangle CBD$



1.  $\overline{EF} \parallel \overline{BC}$
2.  $\angle EFD \cong \angle CBD$
3.  $\angle EDF \cong \angle BDC$
4.  $\triangle EFD \sim \triangle CBD$

Given  
|| lines  $\Rightarrow$  alt. int  
 $\angle \cong$   
vertical  $\angle$ s are  $\cong$   
AA

10. Greg is 6 feet tall and Kathy is  $4\frac{1}{2}$  feet tall. If Greg's shadow is 16 feet long, how long is Kathy's?



$$\frac{6}{16} = \frac{4.5}{x} \quad 6x = 72$$

$$x = 12 \text{ feet long}$$