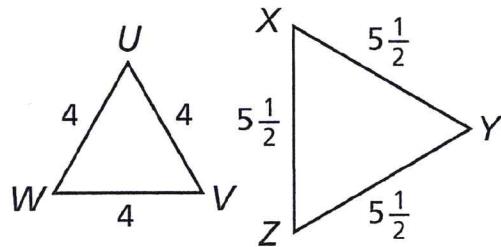


(5)highlighters  
&  
calculators**Similarity: Determining similar triangles.**

Are the triangles shown below similar? Use highlighter to mark the parts you are using to show the triangles are similar. Write a proof (I know that . . . because . . . ).

(c)  $\triangle UVW$  and  $\triangle XYZ$ 

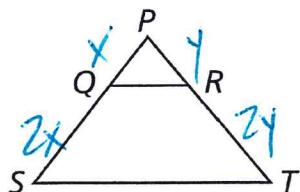
$$\frac{UV}{XY} = \frac{4}{5\frac{1}{2}}$$

$$\frac{VW}{XY} = \frac{4}{5\frac{1}{2}}$$

$$\frac{WU}{XZ} = \frac{4}{5\frac{1}{2}}$$

so

SSS

 $\triangle UVW \sim \triangle XYZ$ all sides  
proportional(d) Given:  $SQ = 2QP$ ,  $TR = 2RP$ Prove:  $\triangle PQR \sim \triangle PST$  $\angle P \cong \angle P$  shared angle

$$\frac{PQ}{PS} = \frac{1}{3} \quad \frac{PR}{PT} = \frac{1}{3}$$

sides proportional

so

SAS  $\triangle PQR \sim \triangle PST$