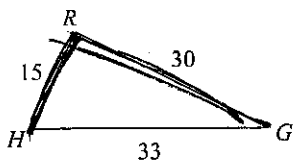
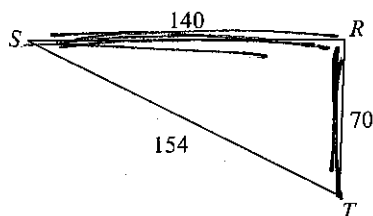


Side Side Side Similarity

State if the triangles in each pair are similar by SSS Similarity. If similar, write the scale factor that supports your statement

1) $\triangle RST \sim \triangle RGH$



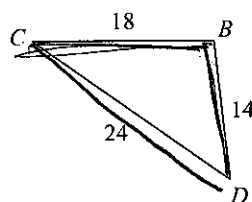
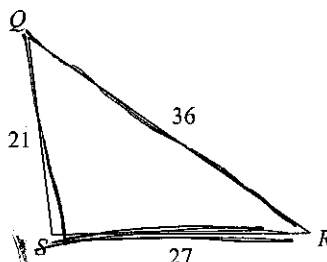
similar; SSS similarity

$$\frac{140}{30} = \frac{14}{3}$$

$$\frac{70}{15} = \frac{14}{3}$$

$$\frac{154}{33} = \frac{14}{3}$$

2) $\triangle QRS \sim \triangle DCB$



similar; SSS similarity

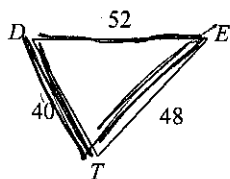
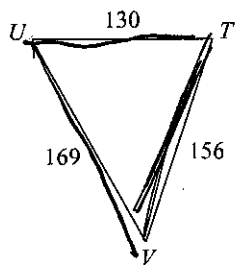
$$\frac{21}{14} = \frac{3}{2}$$

$$\frac{36}{24} = \frac{3}{2}$$

$$\frac{27}{18} = \frac{3}{2}$$

yes

3) $\triangle TUV \sim \triangle TDE$



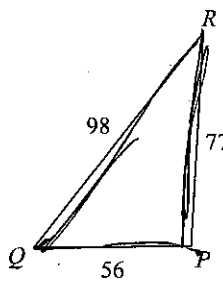
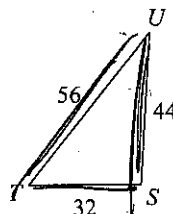
similar; SSS similarity

$$\frac{130}{40} = \frac{13}{4}$$

$$\frac{169}{52} = \frac{13}{4}$$

$$\frac{156}{48} = \frac{13}{4}$$

4) $\triangle PQR \sim \triangle STU$



similar; SSS similarity

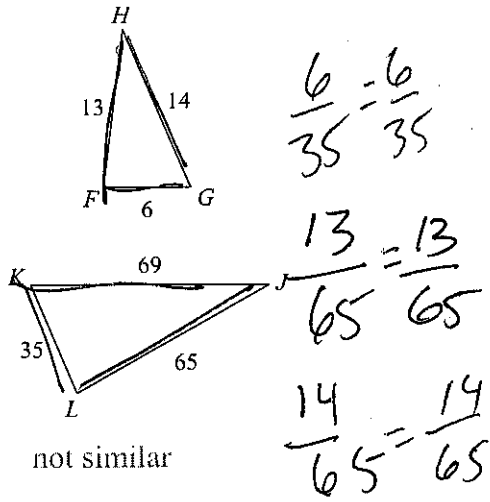
$$\frac{32}{56} = \frac{4}{7}$$

$$\frac{44}{77} = \frac{4}{7}$$

$$\frac{56}{98} = \frac{4}{7}$$

yes!

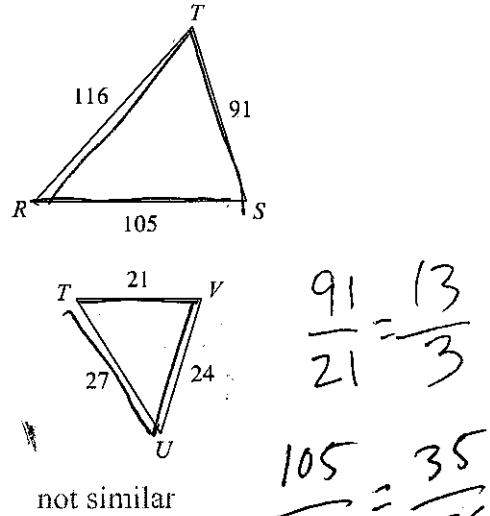
5) $\triangle JKL \sim \triangle HGF$



Not similar

$$\frac{6}{35} \neq \frac{13}{65} \neq \frac{14}{65}$$

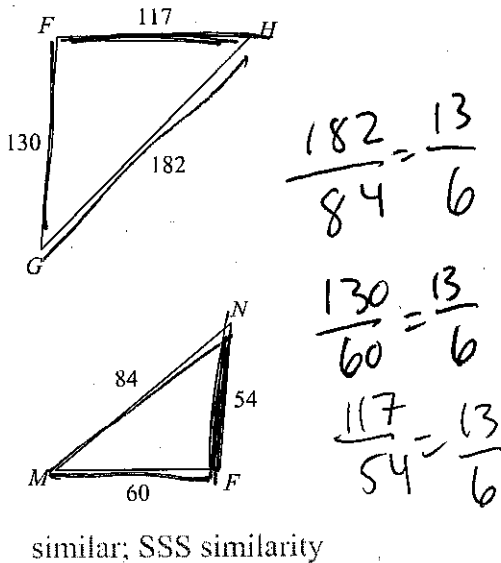
6) $\triangle TSR \sim \triangle TVU$



$$\frac{13}{3} \neq \frac{35}{8} \neq \frac{116}{27}$$

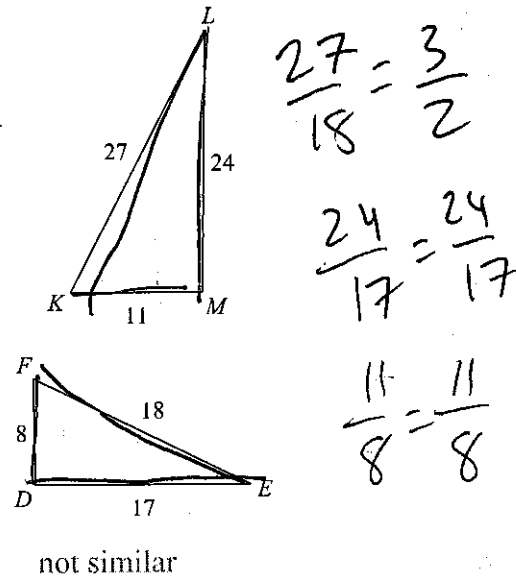
Not similar

7) $\triangle FGH \sim \triangle FMN$



Yes, similar

8) $\triangle KLM \sim \triangle FED$



Not similar