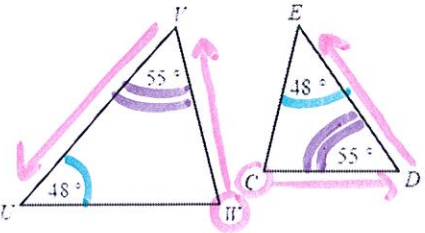
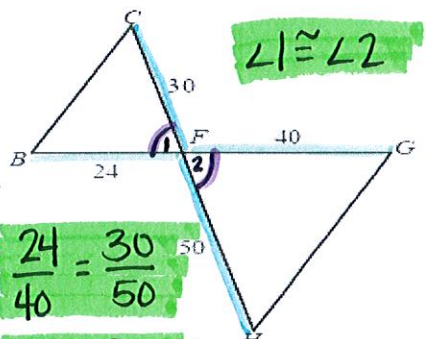
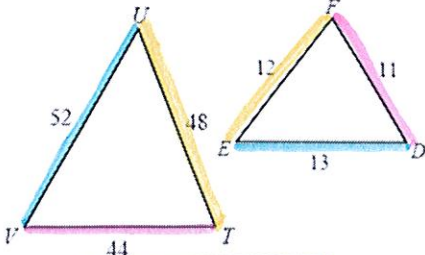


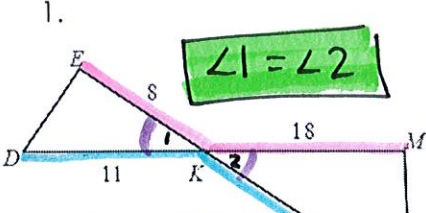
Name: _____

Date: _____

Proving Triangles Similar

AA~	SAS~	SSS~
<p>two angles of one triangle are congruent to two angles of another</p>	<p>one angle of one triangle is congruent to the one angle of another triangle and the adjacent sides are proportional.</p>	<p>all three sides of one triangle are proportional to corresponding sides of another triangle</p>
 <p>$\angle U \cong \angle E$ $\angle V \cong \angle D$ ✓</p> <p>$\triangle CDE \sim \triangle WVU$</p>	 <p>$\angle 1 \cong \angle 2$</p> <p>$\frac{24}{40} = \frac{30}{50}$ $\frac{3}{5} = \frac{3}{5}$ ✓</p> <p>$\triangle FBC \sim \triangle FGH$</p>	 <p>$\frac{44}{11} = \frac{48}{12} = \frac{52}{13}$ $4 = 4 = 4$ ✓</p> <p>$\triangle UVT \sim \triangle EDF$</p>

1.

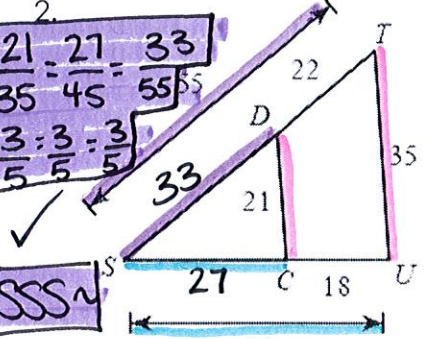


$\angle 1 = \angle 2$

$\frac{8}{18} = \frac{11}{22}$
 $\frac{4}{9} \neq \frac{1}{2}$

not ~

2.

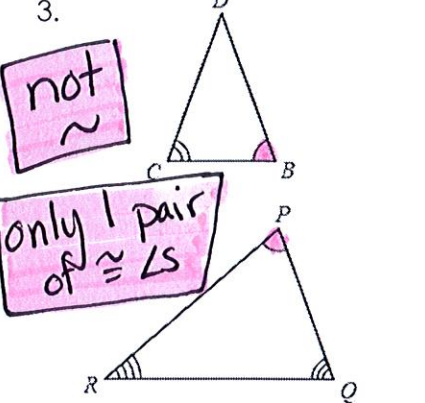


$\frac{21}{35} = \frac{27}{45} = \frac{33}{55}$
 $\frac{3}{5} = \frac{3}{5} = \frac{3}{5}$ ✓

SSS~

$\triangle SCD \sim \triangle SUT$

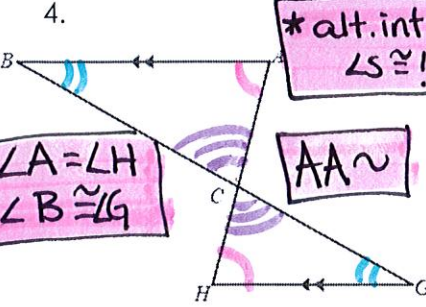
3.



not ~

only 1 pair of $\cong \angle$ s

4.



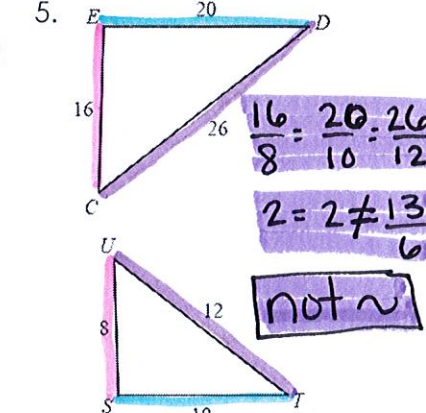
alt. int. $\angle s \cong !$

$\angle A \cong \angle H$
 $\angle B \cong \angle G$

AA~

$\triangle ABC \sim \triangle HGC$

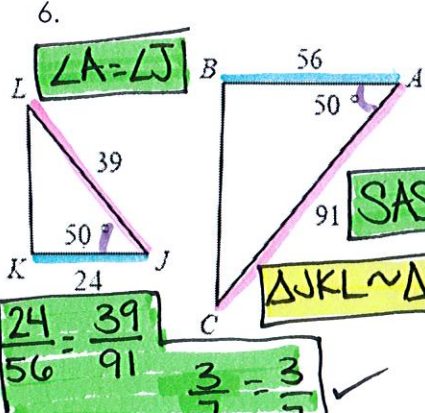
5.



$\frac{16}{8} = \frac{20}{10} = \frac{26}{12}$
 $2 = 2 \neq \frac{13}{6}$

not ~

6.



$\angle A = \angle J$

SAS~

$\triangle JKL \sim \triangle ABC$

$\frac{24}{56} = \frac{39}{91}$
 $\frac{3}{7} = \frac{3}{7}$ ✓