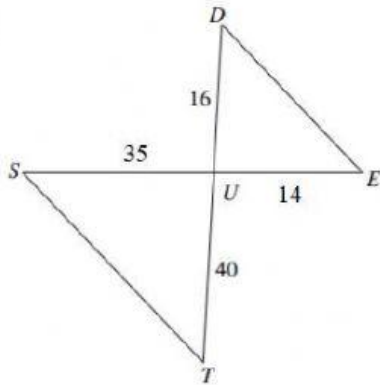


Worksheet: Triangle Similarity Tests (SSS, AA, SAS)

I. Write the similarity statement for each pair of triangles with appropriate test of similarity.

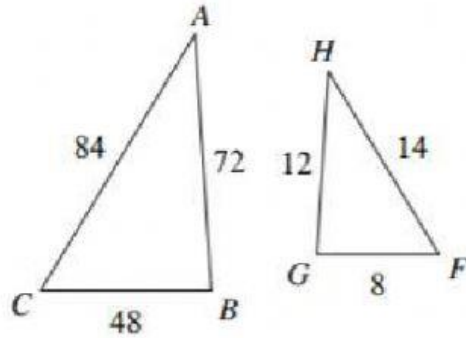
(a)



$$\triangle STU \sim \triangle \boxed{\text{EDU}}$$

by $\boxed{\text{SAS}}$

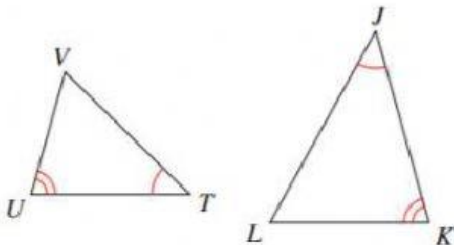
(b)



$$\triangle ABC \sim \triangle \boxed{}$$

by $\boxed{}$

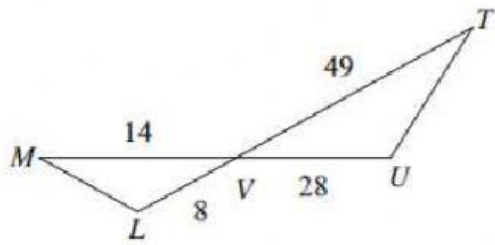
(c)



$$\triangle TUV \sim \triangle \boxed{}$$

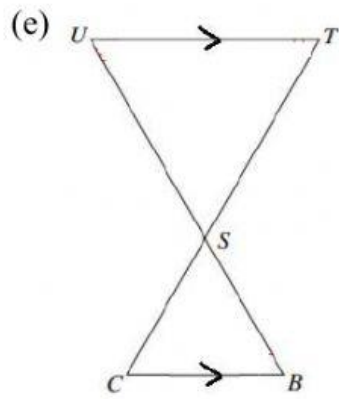
by $\boxed{}$

(d)



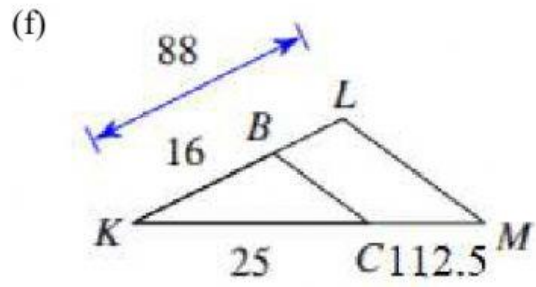
$$\triangle LMV \sim \triangle \boxed{}$$

by $\boxed{}$



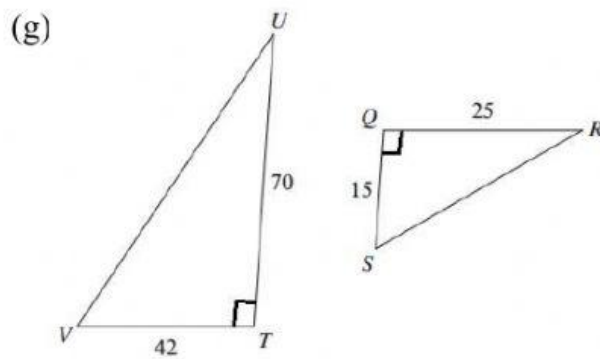
$\Delta STU \sim \Delta$

by



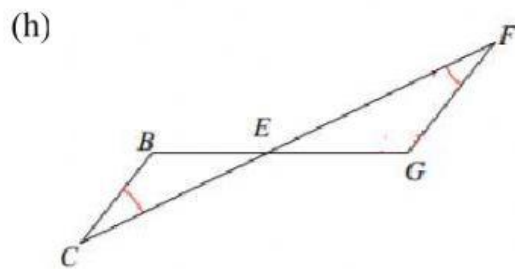
$\Delta BCK \sim \Delta$

by



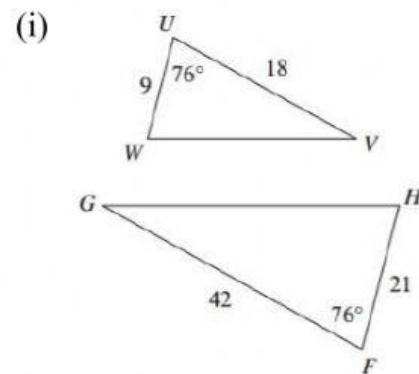
$\Delta TUV \sim \Delta$

by



$\Delta BCE \sim \Delta$

by

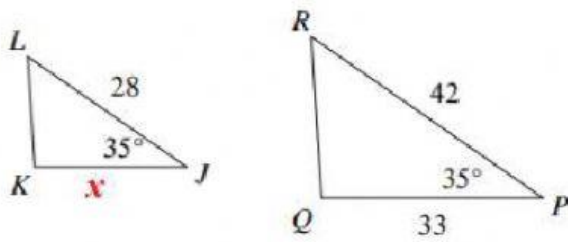


$\Delta UVW \sim \Delta$

by

II. The triangles in each pair are similar. Complete the equation and solve the value of x .

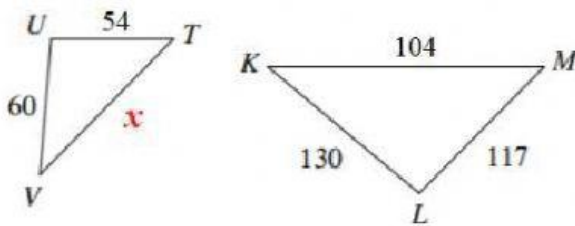
(a) $\triangle JKL \sim \triangle PQR$



$$\frac{x}{33} = \frac{28}{42}$$

$$x = 22$$

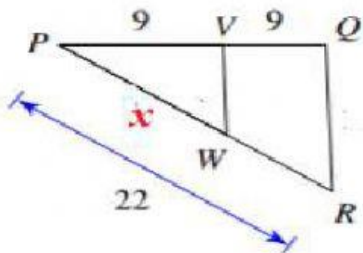
(b) $\triangle TUV \sim \triangle MLK$



$$\frac{x}{60} = \frac{104}{130}$$

$$x = 48$$

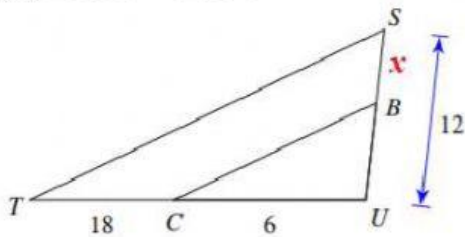
(c) $\triangle PVW \sim \triangle PQR$



$$\frac{x}{9} = \frac{18}{18}$$

$$x = 9$$

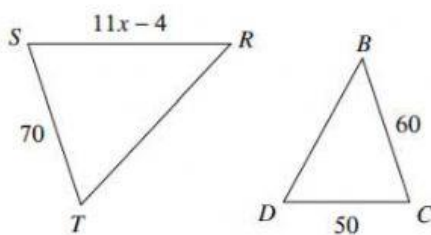
(d) $\triangle BCU \sim \triangle STU$



$$\frac{12-x}{6} = \frac{6}{6}$$

$$x = 6$$

(e) $\triangle RST \sim \triangle BCD$



$$\frac{11x-4}{70} = \frac{60}{50}$$

$$x = 14$$