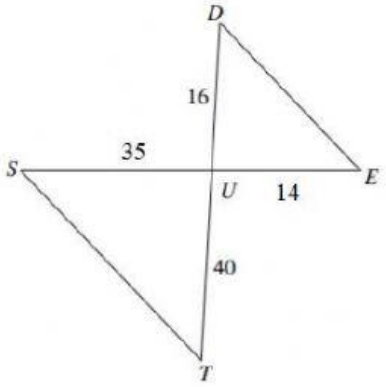
Worksheet: Triangle Similarity Tests
(SSS, AA, SAS)

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

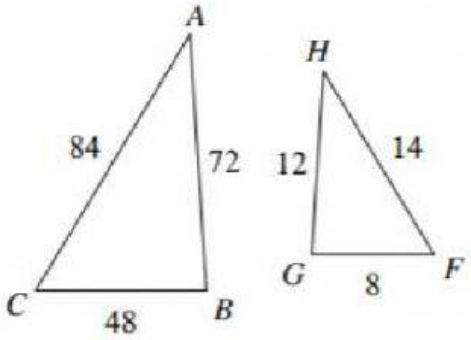
(a)



$\Delta STU \sim \Delta$ EDU

by SAS

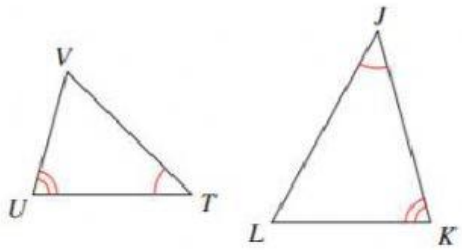
(b)



$\Delta ABC \sim \Delta$ ____

by ____

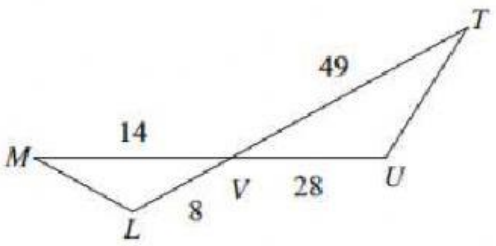
(c)



$\Delta TUV \sim \Delta$ ____

by ____

(d)



$\Delta LMV \sim \Delta$ ____

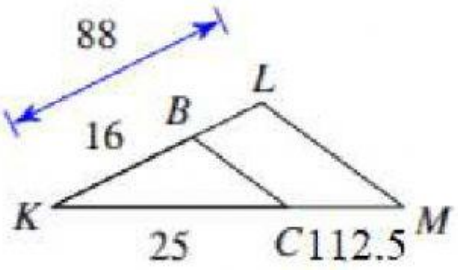
by ____

(e)

$\Delta STU \sim \Delta$ ☐

by ☐

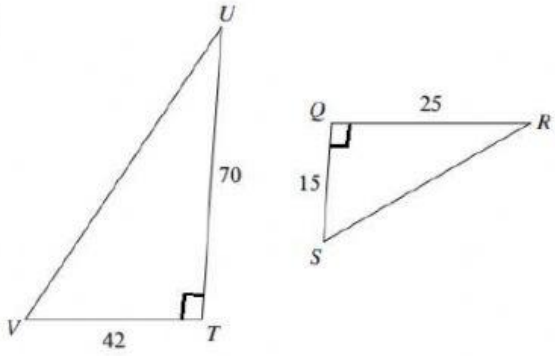
(f)



$\Delta BCK \sim \Delta$ ☐

by ☐

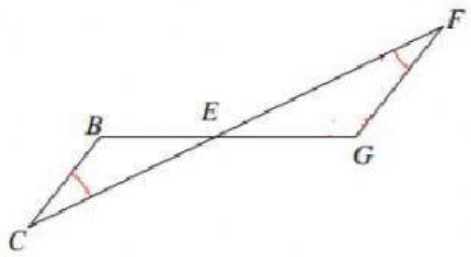
(g)



$\Delta TUV \sim \Delta$ ☐

by ☐

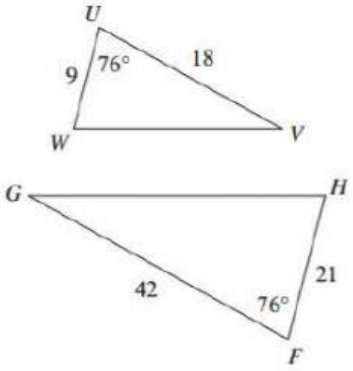
(h)



$\Delta BCE \sim \Delta$ ☐

by ☐

(i)

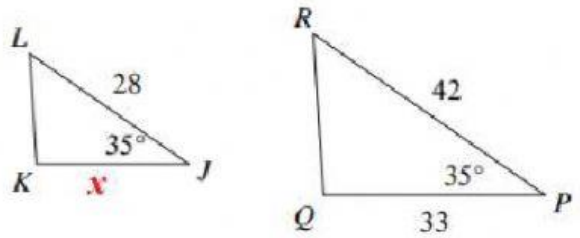


$\Delta UVW \sim \Delta$ ☐

by ☐

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

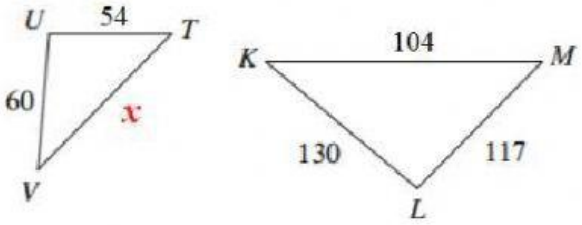
(a) $\Delta JKL \sim \Delta PQR$



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

$$x = 22$$

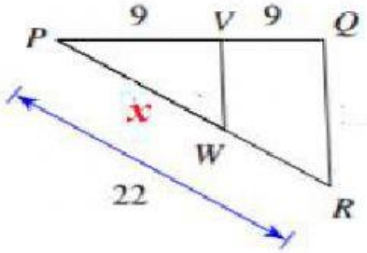
(b) $\Delta TUV \sim \Delta MLK$



$$\frac{x}{\square} = \frac{\square}{130}$$

$$x = \square$$

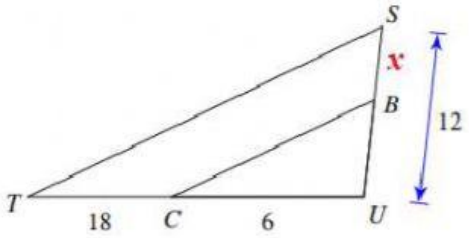
(c) $\Delta PVW \sim \Delta PQR$



$$\frac{x}{\square} = \frac{\square}{\square}$$

$$x = \square$$

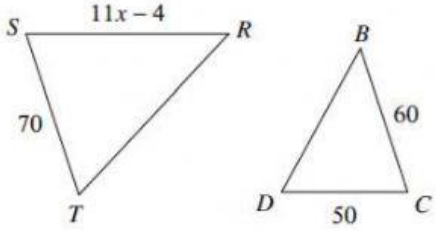
(d) $\Delta BCU \sim \Delta STU$



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

$$x = \square$$

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



$$\frac{11x-4}{\square} = \frac{\square}{\square}$$

$$x = \square$$