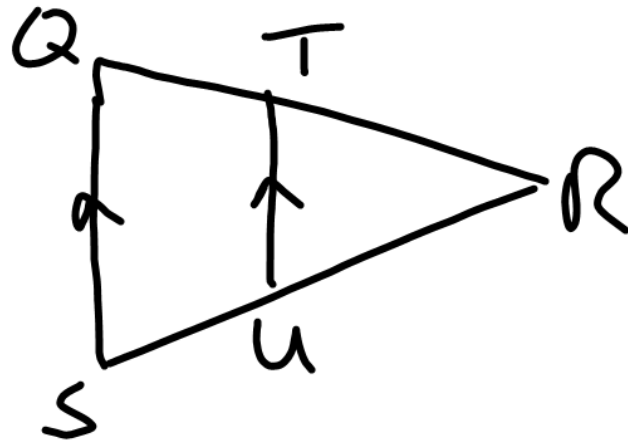


6.6 Triangle Proportion Theorem

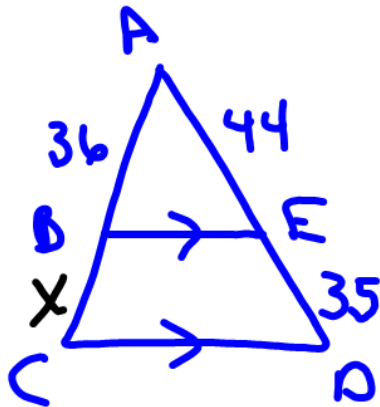
* Parallel line



* Parallel lines cut triangles & transversals proportionately.

$$\text{If } \overline{QS} \parallel \overline{TU}, \text{ then } \frac{RT}{QT} = \frac{RU}{US}$$

Solve for x. Show work.



$$\frac{44}{35} = \frac{36}{x}$$

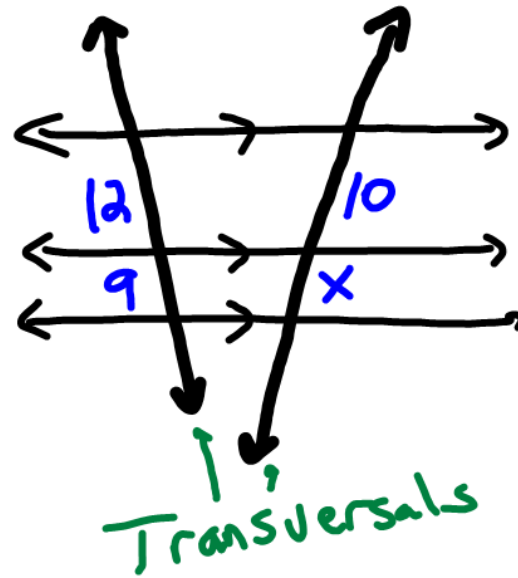
$$\frac{1260}{44} = \frac{44x}{44}$$

$$x = 28.6$$

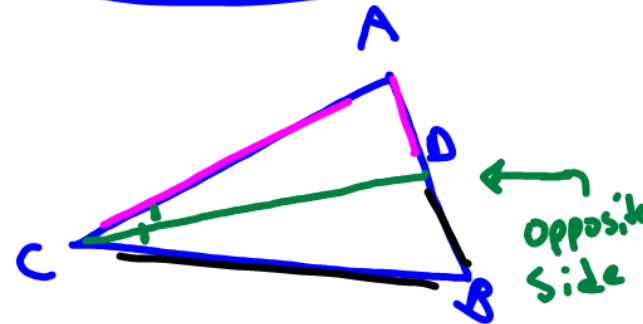
Solve for x.

$$\frac{12}{9} = \frac{10}{x}$$

$$\frac{90}{12} = \frac{12}{12} \times \quad \textcircled{x = 7.5}$$



* Angle bisector cuts the opposite side so it is proportional to the other two sides.



$$\text{So... } \frac{AD}{DB} = \frac{AC}{BC}$$