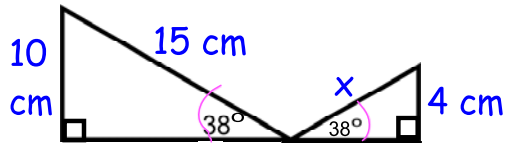


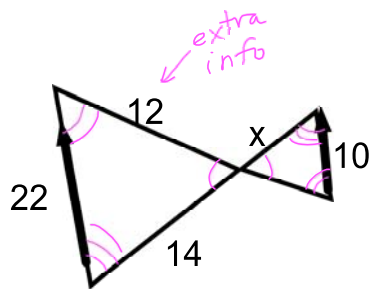
Examples for page 7.14

1. Solve for x.



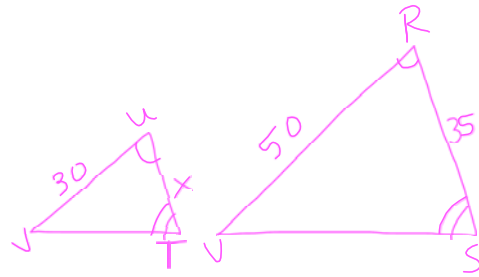
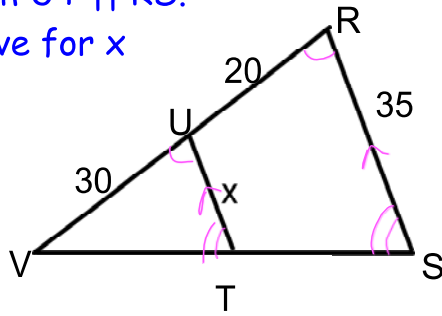
$$\frac{10}{4} = \frac{15}{x}$$
$$10 \cdot x = 4 \cdot 15$$
$$\frac{10x}{10} = \frac{60}{10}$$
$$x = 6 \text{ cm}$$

2. Solve for x.



$$\frac{22}{10} = \frac{14}{x}$$
$$22 \cdot x = 10 \cdot 14$$
$$\frac{22x}{22} = \frac{140}{22}$$
$$x = 6.\overline{36} \text{ u}$$

3. Given $\overline{UT} \parallel \overline{RS}$.
Solve for x



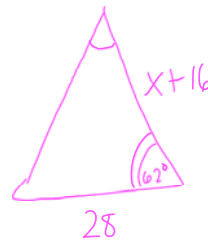
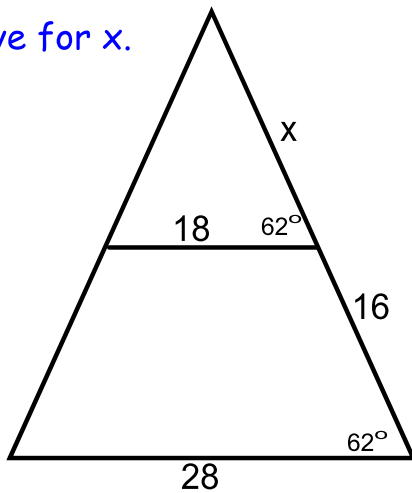
$$\frac{30}{50} = \frac{x}{35}$$

$$50 \cdot x = 30 \cdot 35$$

$$\frac{50x}{50} = \frac{1050}{50}$$

$$x = 21$$

4. Solve for x .



$$\frac{18}{28} = \frac{x}{x+16}$$

$$18(x+16) = 28x$$

$$18x + 288 = 28x$$

$$-18x \quad -18x$$

$$\frac{288}{10} = \frac{10x}{10}$$

$$288 = x$$

$$x = 288$$