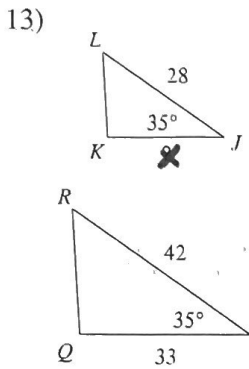


Extra Practice Key

Find the missing length. The triangles in each pair are similar.

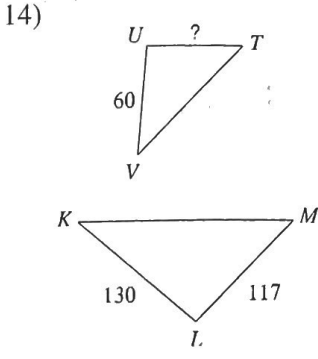


$$\frac{28}{x} = \frac{42}{33}$$

$$42x = 924$$

$$\frac{42x}{42} = \frac{924}{42}$$

$$\boxed{KJ} = 22$$

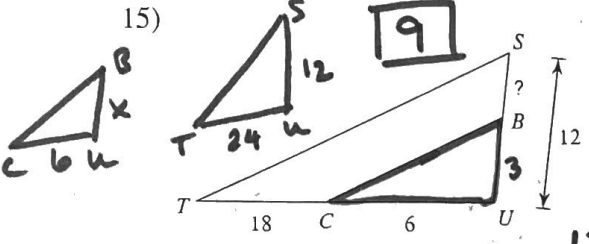


$$\frac{60}{130} = \frac{x}{117}$$

$$130x = 7020$$

$$\frac{130x}{130} = \frac{7020}{130}$$

$$\boxed{X} = 54$$

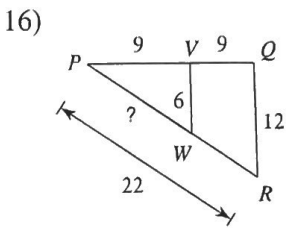


$$\frac{x}{6} = \frac{12}{24}$$

$$24x = 72$$

$$x = 3$$

$$12 - 3 = 9$$



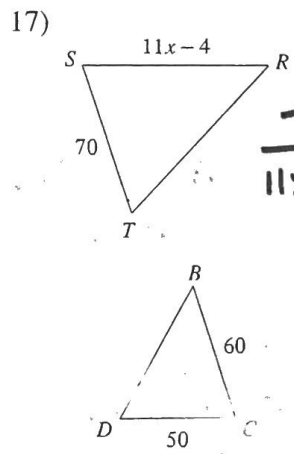
$$\frac{x}{6} = \frac{22}{12}$$

$$12x = 132$$

$$\frac{12x}{12} = \frac{132}{12}$$

$$\boxed{X} = 11$$

Solve for x. The triangles in each pair are similar.



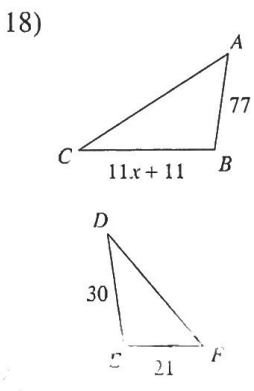
$$\frac{70}{11x-4} = \frac{50}{60}$$

$$4200 = 550x - 200$$

$$+ 200 \quad + 200$$

$$4400 = 550x$$

$$\boxed{X} = 8$$



$$\frac{21}{77} = \frac{30}{11x+11}$$

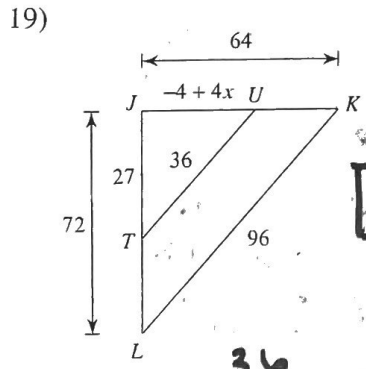
$$2310 = 231x + 231$$

$$-231 \quad -231$$

$$2079 = 231x$$

$$\frac{2079}{231} = \frac{231x}{231}$$

$$\boxed{X} = 9$$



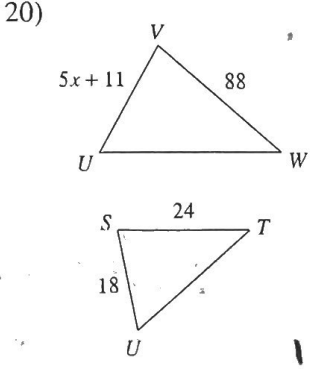
$$\frac{36}{-4+4x} = \frac{96}{64}$$

$$2304 = -384 + 384x$$

$$+ 384 \quad + 384$$

$$2688 = 384x$$

$$X = 7$$



$$\frac{18}{24} = \frac{5x+11}{88}$$

$$1584 = 120x + 264$$

$$-264 \quad -264$$

$$1320 = 120x$$

$$\frac{1320}{120} = \frac{120x}{120}$$

$$\boxed{X} = 11$$