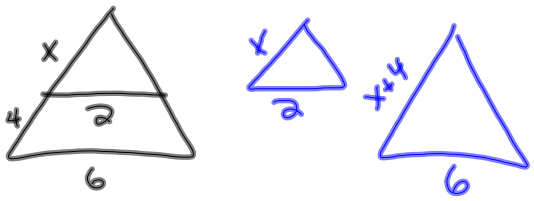
2-24-14

1st Geo



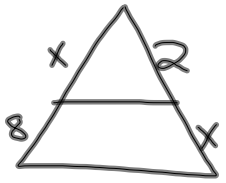
$$\frac{x}{x+4} = \frac{2}{6}$$

$$6x = 2x + 8$$

$$-2x \quad -2x$$

$$4x = 8$$

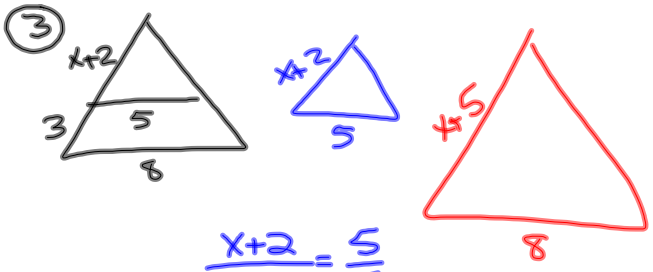
$$x = 2$$

② 

$$\frac{x}{8} = \frac{2}{x}$$

$$x^2 = 16$$

$x = \pm 4$ only 4 makes sense because distance is positive

③ 

$$\frac{x+2}{x+5} = \frac{5}{8}$$

$$8x + 16 = 5x + 25$$

$$-5x \quad -5x$$

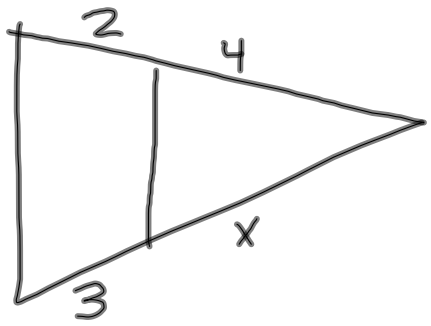
$$3x + 16 = 25$$

$$-16 \quad -16$$

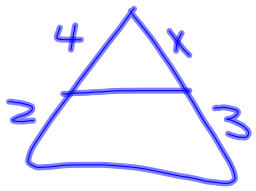
$$3x = 9$$

$$x = 3$$

(4)



Rotate it in your head or rotate your paper

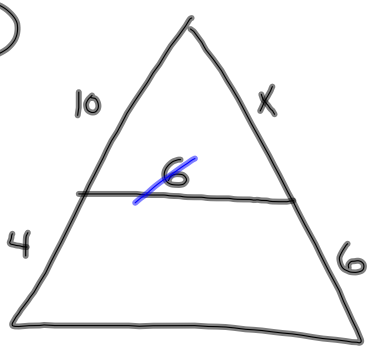


$\frac{4}{2} = \frac{x}{3}$

$2x = 12$

$x = 6$

(5)

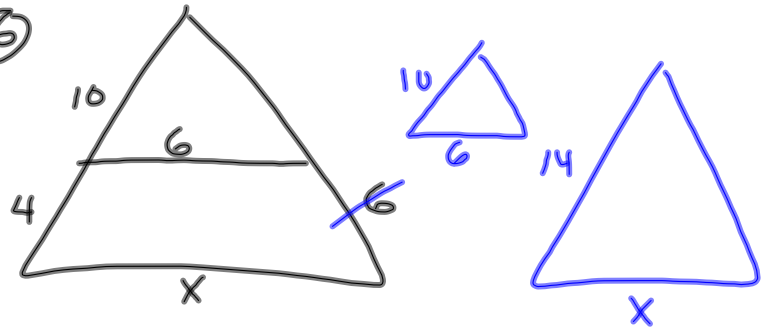


$\frac{10}{4} = \frac{x}{6}$

$\frac{4x}{4} = \frac{60}{4}$

$x = 15$

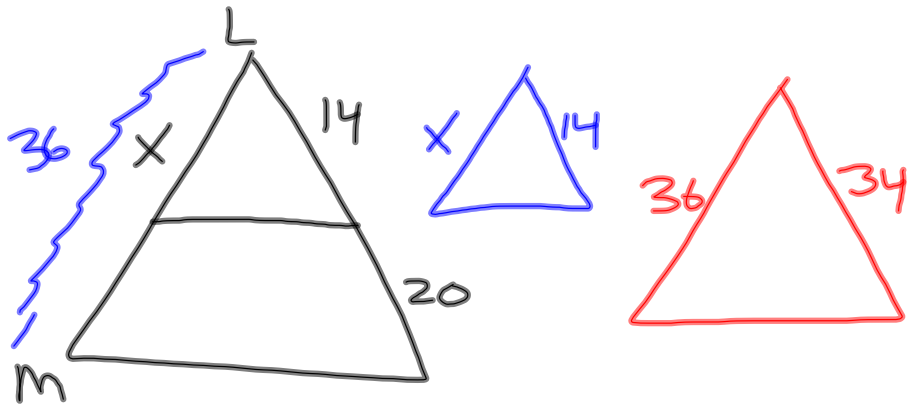
(6)



$\frac{10}{14} = \frac{6}{x}$

$\frac{10x}{10} = \frac{84}{10}$

$x = 8.4$

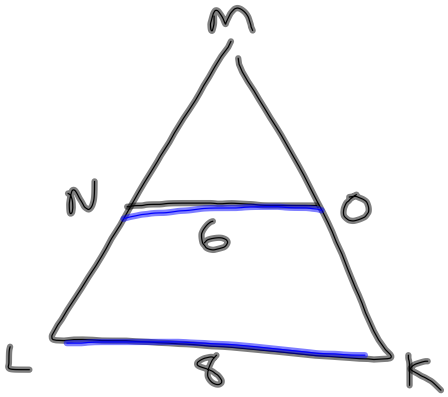


If LM=36, find X.

$$\frac{x}{36} = \frac{14}{34}$$

$$\frac{34x}{34} = \frac{504}{34}$$

$$x \approx 14.8$$



If $\triangle MNO \sim \triangle MLK$ and perimeter of $\triangle MNO$ is 20 cm, what is perimeter of $\triangle MLK$?

$$\frac{6}{8} = \frac{20}{p}$$

$$\frac{6p}{6} = \frac{160}{6}$$

$$p = 26.\overline{6}$$