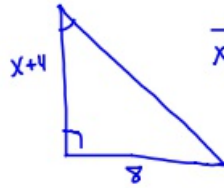
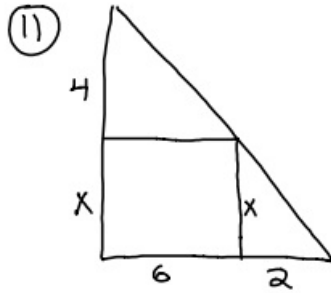


12-11-17 5<sup>th</sup> Geo

Ch. 7 PT 2

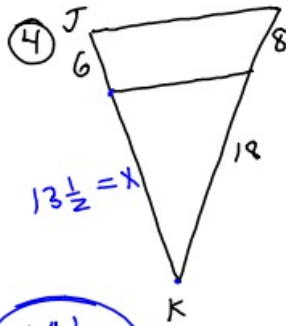


$$\frac{x}{x+4} = \frac{2}{8}$$

$$8x = 2(x+4)$$

$$8x = 2x + 8$$

$$\begin{array}{r} 8x = 2x + 8 \\ -2x \quad -2x \\ \hline 6x = 8 \\ x = 1\frac{1}{3} \end{array}$$



$$13\frac{1}{2} = x$$

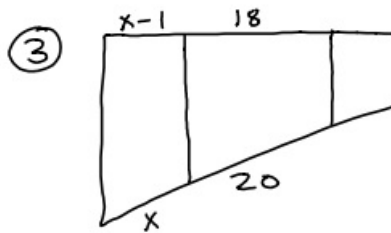
JK = ?

$$\frac{6}{x} = \frac{8}{19}$$

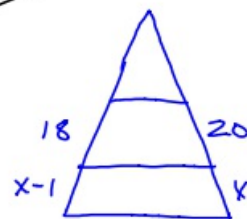
$$\frac{8x}{8} = \frac{108}{8}$$

$$x = 13\frac{1}{2}$$

19 1/2



$$\frac{18}{x-1} = \frac{20}{x}$$



$$20(x-1) = 18x$$

$$\begin{array}{r} 20x - 20 = 18x \\ -18x \quad -18x \\ \hline 2x - 20 = 0 \end{array}$$

$$\begin{array}{r} 2x - 20 = 0 \\ +20 \quad +20 \\ \hline 2x = 20 \end{array}$$

$$x = 10$$

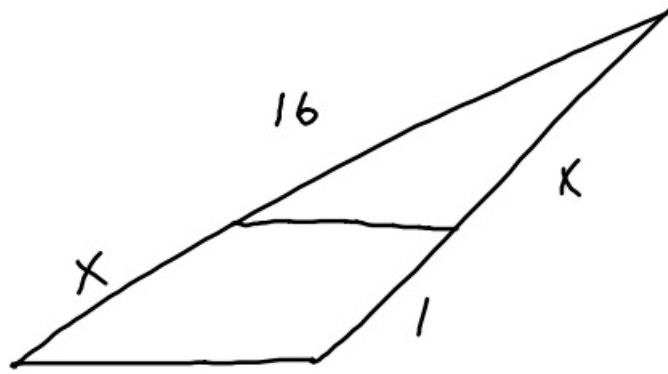
OR

$$\begin{array}{r} 20x - 20 = 18x \\ -20x \quad -20x \\ \hline -20 = -2x \end{array}$$

$$\frac{-20}{-2} = \frac{-2x}{-2}$$

$$10 = x$$

⑤

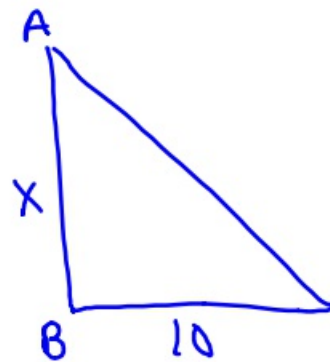
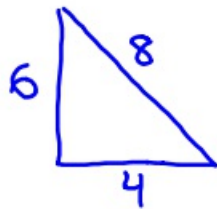
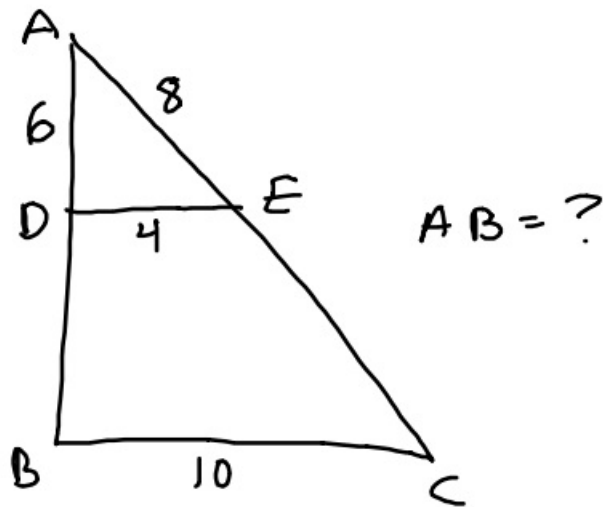


$$\frac{16}{x} = \frac{x}{1}$$

$$\sqrt{x^2} = \sqrt{16}$$

$$x = 4$$

⑨

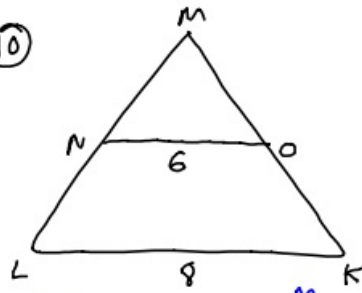


$$\frac{6}{x} = \frac{4}{10}$$

$$4x = 60$$

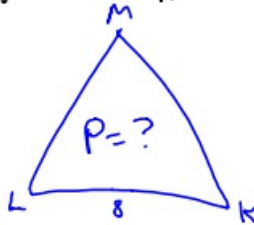
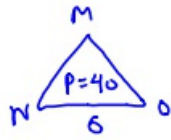
$$x = 15$$

⑩



$$P_{\Delta MNO} = 40$$

$$P_{\Delta MLK} = ?$$

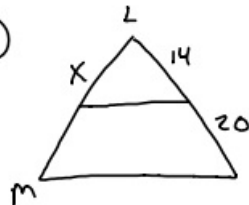


$$\frac{6}{8} = \frac{40}{P}$$

$$6P = 320$$

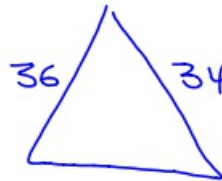
$$P = 53\frac{1}{2}$$

⑦



$$LM = 36$$

Find X.



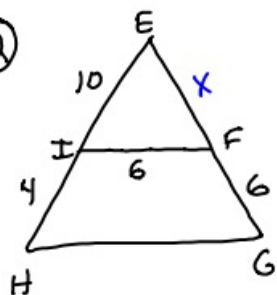
$$\frac{X}{36} = \frac{14}{34}$$

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

$$X \approx 14.8$$

$$4:9 = \frac{4}{9}$$

②



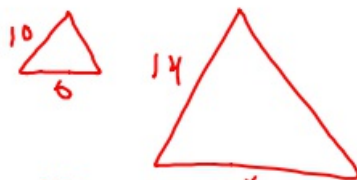
$$EF = ? 15$$

$$HG = ?$$

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

$$4x = 60$$

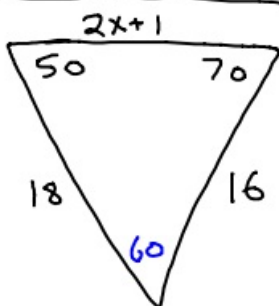
$$x = 15$$



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

$$10x = 84$$

$$x = 8.4$$



$$\frac{x}{2x+1} = \frac{10}{18}$$

$$10(2x+1) = 18x$$

$$20x + 10 = 18x$$

$$\begin{array}{r} -18x \\ \hline 2x + 10 = 0 \end{array}$$

$$\begin{array}{r} 2x + 10 = 0 \\ -10 \quad -10 \\ \hline 2x = -10 \end{array}$$

$$2x = -10$$

$$x = -5$$

$$\frac{2x-4}{3x+2} = \frac{5}{7}$$

$$5(3x+2) = 7(2x-4)$$

$$15x + 10 = 14x - 28$$

$$\begin{array}{r} -14x \\ \hline x + 10 = -28 \end{array}$$

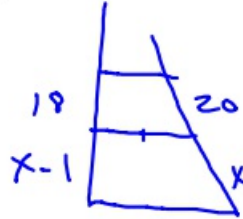
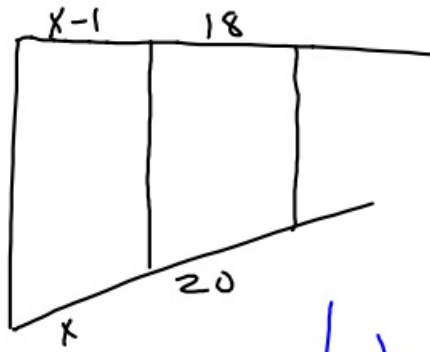
$$\begin{array}{r} x + 10 = -28 \\ -10 \quad -10 \\ \hline x = -38 \end{array}$$

$$x = -38$$

Why?

12-11-17 6<sup>th</sup> Geo

③



$$\frac{18}{x-1} = \frac{20}{x}$$

$$20(x-1) = 18x$$

$$20x - 20 = 18x$$

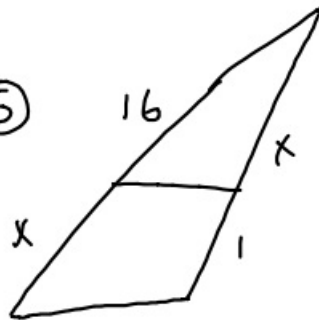
$$-18x \quad -18x$$

$$\frac{2x - 20 = 0}{+20 \quad +20}$$

$$2x = 20$$

$$x = 10$$

⑤

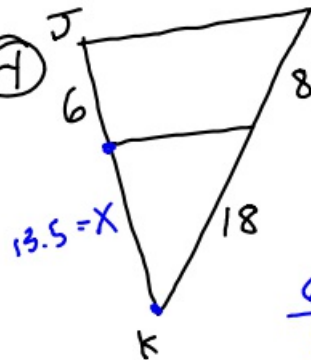


$$\frac{16}{x} = \frac{x}{1}$$

$$\sqrt{x^2} = \sqrt{16}$$

$$x = 4$$

④



$$JK = ? \quad 6 + 13.5 \\ 19.5$$

$$\frac{6}{x} = \frac{8}{18}$$

$$\frac{8x}{8} = \frac{108}{8}$$

$$x = 13.5$$

⑥

$\frac{x}{10} = \frac{6}{10}$   
 $10x = 60$   
 $x = 6$

⑦

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

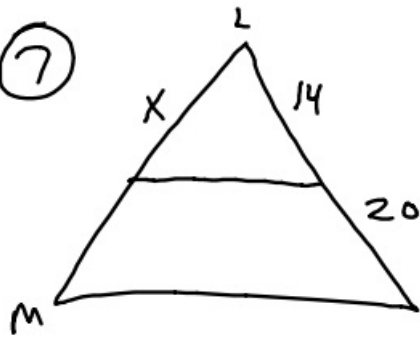
$AB = ?$

⑧

$\frac{10}{14} = \frac{6}{x}$   
 $10x = 84$   
 $x = 8.4$

$EF = 15$      $HG =$

7



$$LM = 36$$

Find x

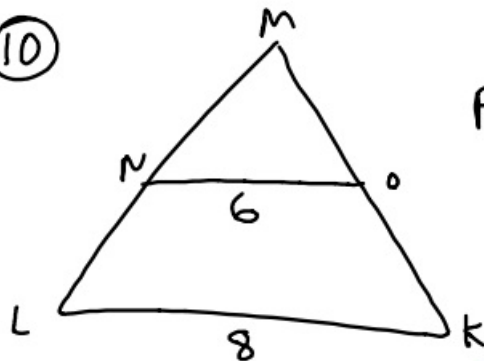


$$\frac{x}{36} = \frac{14}{34}$$

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

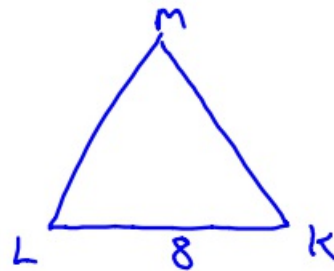
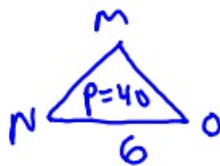
$$x \approx 14.8$$

10



$$P \text{ of } \triangle MNO = 40$$

$$P \text{ of } \triangle MLK = ?$$

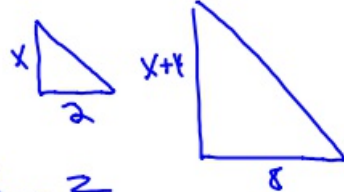
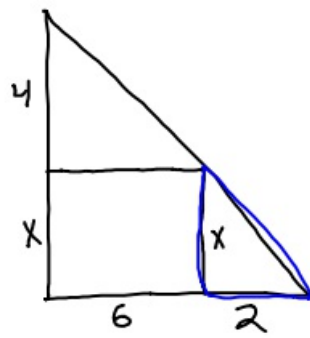


$$\frac{6}{8} = \frac{40}{P}$$

$$6P = 320$$

$$P = 53\frac{1}{3} \text{ (} 53.\bar{3} \text{)}$$

(11)



$$\frac{x}{x+4} = \frac{2}{8}$$

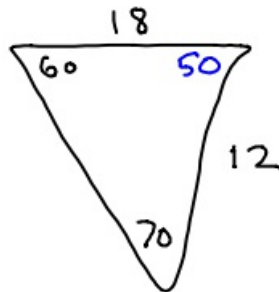
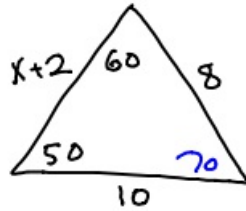
$$8x = 2(x+4)$$

$$8x = 2x + 8$$

$$\frac{6x}{6} = \frac{8}{6}$$

$$x = 1\frac{1}{3} (1.\bar{3})$$

$$2:3 = \frac{2}{3}$$



$$\frac{x+2}{18} = \frac{10}{12}$$

$$12(x+2) = 180$$

$$12x + 24 = 180$$

$$\underline{-24 \quad -24}$$

$$12x = 156$$

$$x = 13$$