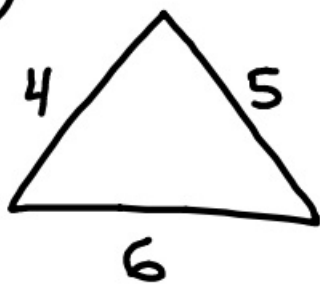


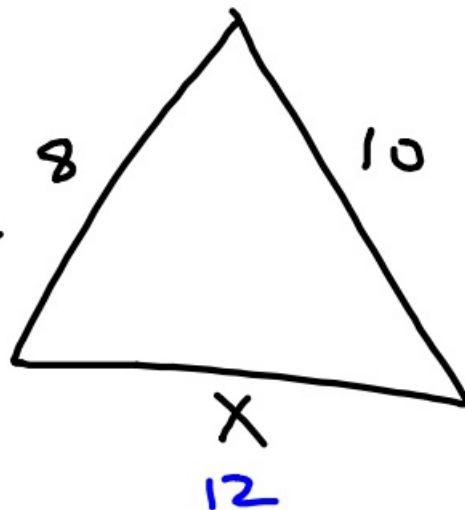
12-3-18

5<sup>th</sup> Geo

①



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②

$$\frac{4}{6} = \frac{6}{X}$$

$$4x = 36$$

$$x = 9$$

means

$$4:6 = 6:x$$

extremes

$$4x = 36$$

③

$$\frac{x+2}{5} = \frac{x+5}{4}$$

$$5(x+5) = 4(x+2)$$

$$5x+25 = 4x+8$$

-4x

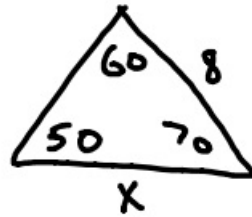
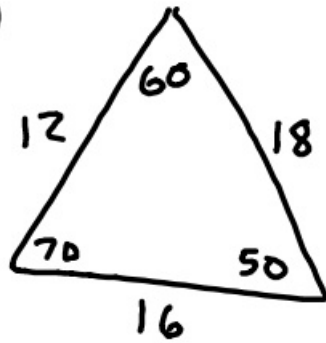
-4x

$$x+25 = 8$$

$$-25 \quad -25$$

$$x = -17$$

④



$$\frac{x}{16} = \frac{8}{12}$$

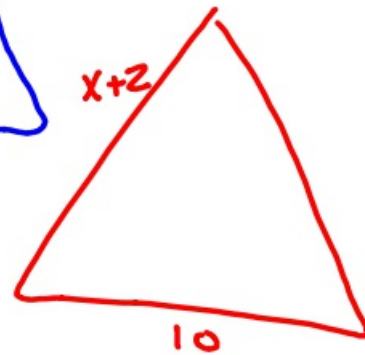
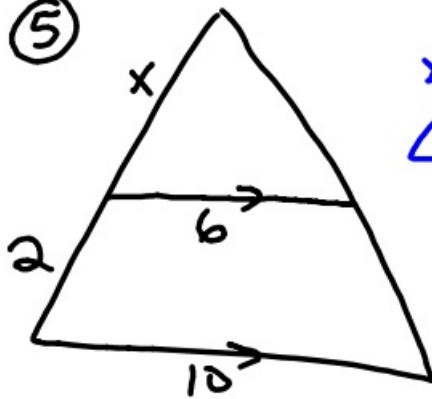
~~$\frac{10.66}{10.6}$~~

$$\frac{12x}{12} = \frac{128}{12}$$

$$\frac{8}{12}$$

$$x = 10\frac{2}{3}$$

⑤



$$\frac{x}{x+2} = \frac{6}{10}$$

$$10x = 6(x+2)$$

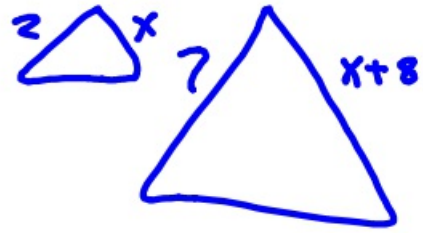
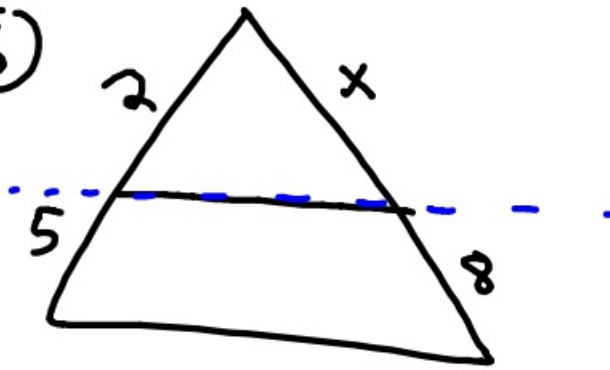
$$10x = 6x + 12$$

$$\begin{array}{r} -6x \\ \hline 4x = 12 \end{array}$$

$$4x = 12$$

$$x = 3$$

⑥

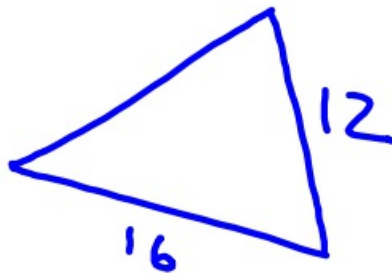
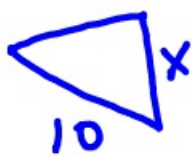
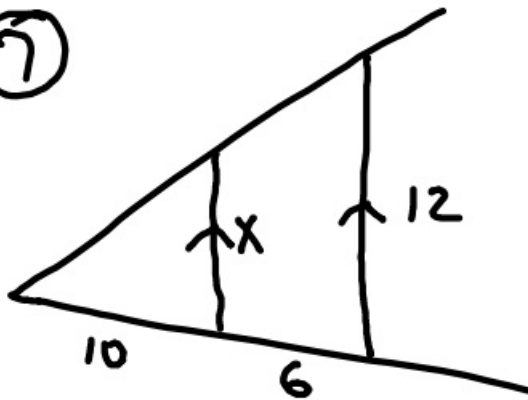


$$\frac{2}{5} = \frac{x}{8}$$

$$5x = 16$$

$$x = 3.2$$

⑦

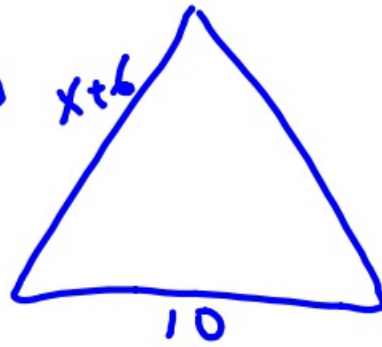
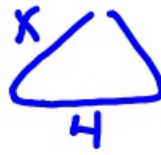
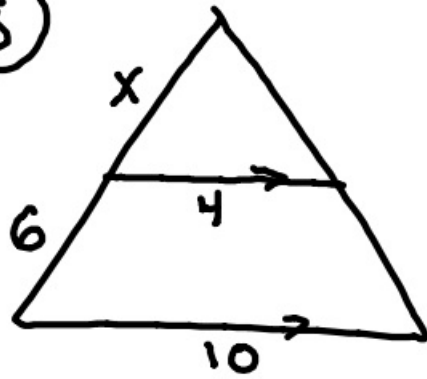


$$\frac{x}{12} = \frac{10}{16}$$

$$16x = 120$$

$$x = 7.5$$

8



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

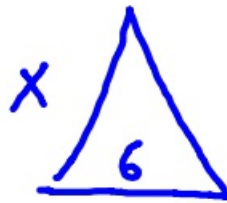
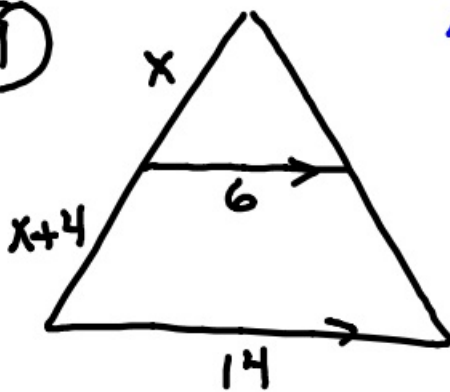
$$10x = 4(x+6)$$

$$10x = 4x + 24$$

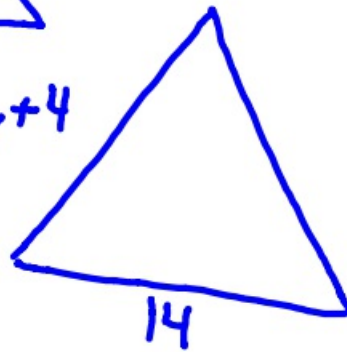
$$6x = 24$$

$$x = 4$$

9



$$2x+4$$



$$\frac{x}{2x+4} = \frac{6}{14}$$

$$14x = 12x + 24$$

$$2x = 24$$

$$2 \sqrt{24}$$

$$x = 12$$

12-3-18 6<sup>th</sup> Geo

①

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

$$4x = 36$$

$$x = 9$$

means  
 $4:6 = 6:x$   
extremes

$$4x = 6 \cdot 6$$

$$4x = 36$$

$$x = 9$$

②

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

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

$$4x+20 = 3x-12$$

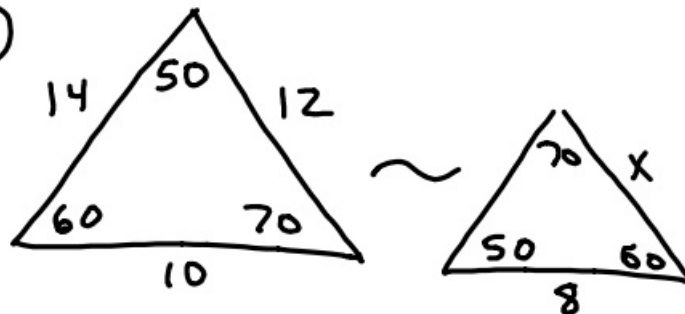
-3x

-3x

$$\frac{x+20 = -12}{-20 \quad -20}$$

$$x = -32$$

③



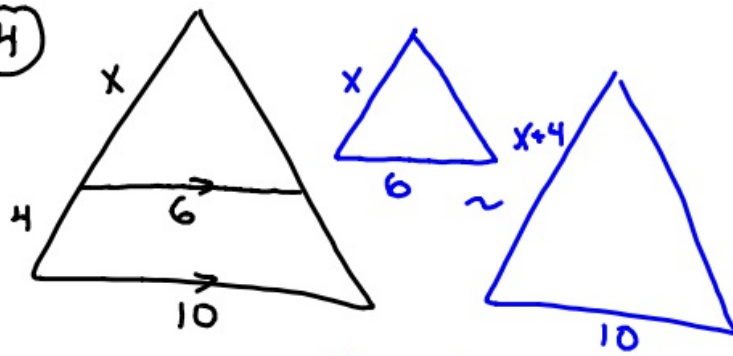
$$\frac{x}{10} = \frac{8}{14}$$

$$\frac{14x}{14} = \frac{80}{14}$$

$$x = 5.714285$$

$$x \approx 5.71$$

④



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

$$10x = 6(x+4)$$

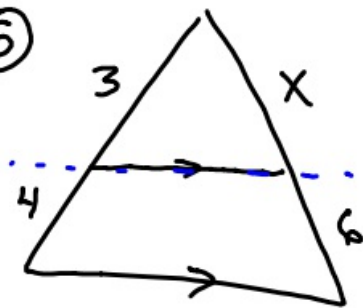
$$10x = 6x + 24$$

$$\begin{array}{r} 10x = 6x + 24 \\ -6x \quad -6x \\ \hline 4x = 24 \end{array}$$

$$4x = 24$$

$$x = 6$$

⑤

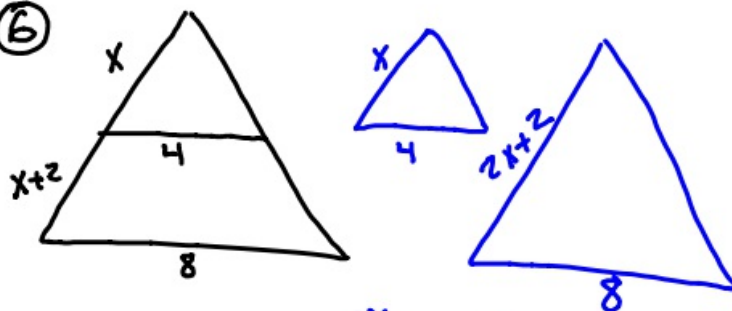


$$\frac{3}{4} = \frac{x}{6}$$

$$4x = 18$$

$$x = 4\frac{1}{2}$$

⑥



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

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

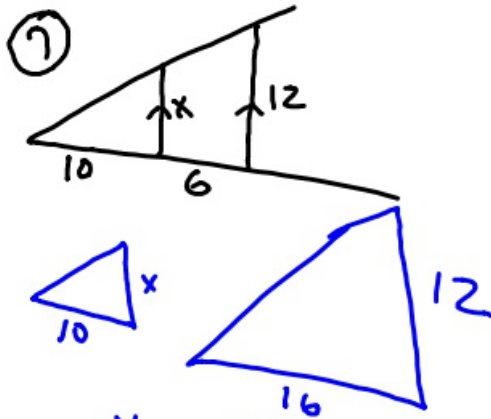
$$8x = 8x + 8$$

$$\begin{array}{r} 8x = 8x + 8 \\ -8x \quad -8x \\ \hline 0 = 8 \end{array}$$

$$0 = 8 \quad ?$$

Unsolvable

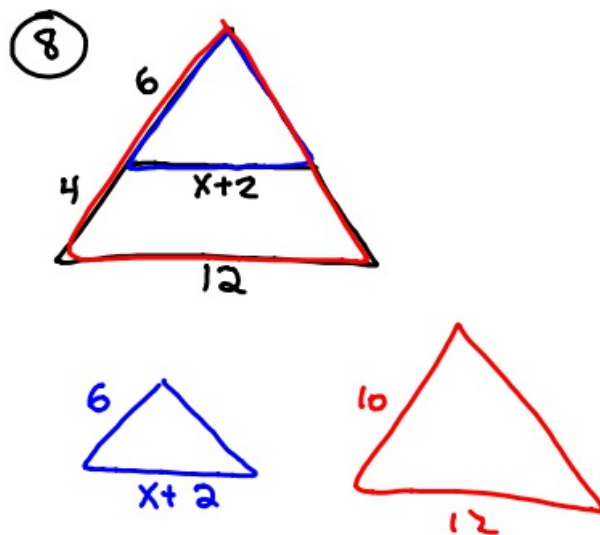
NO Solution



$$\frac{x}{12} = \frac{10}{16}$$

$$\frac{16x}{16} = \frac{120}{16}$$

$$x = 7.5$$



$$\frac{6}{10} = \frac{x+2}{12}$$

$$10(x+2) = 6 \cdot 12$$

$$10x + 20 = 72$$

$$\begin{array}{r} 10x + 20 = 72 \\ -20 \quad -20 \\ \hline 10x = 52 \end{array}$$

$$x = 5.2$$