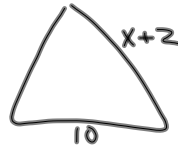
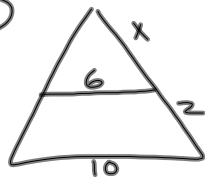


1-16-14  
5<sup>th</sup> Geo

Ch. 7 PT 1 Questions

(13)



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

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

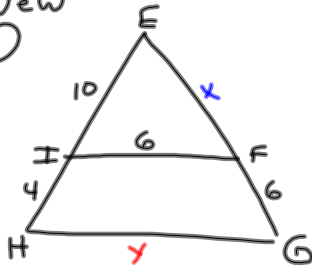
$$10x = 6x + 12$$

$$4x = 12$$

$$x = 3$$

New

(1)

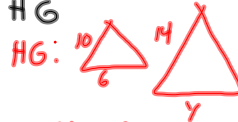


a.) Find EF and HG

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

$$4x = 60$$

$$x = 15$$

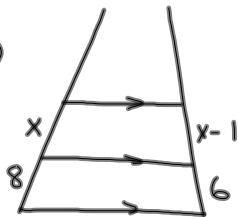


$$\frac{10}{14} = \frac{6}{y}$$

$$10y = 84$$

$$y = 8.4$$

(2)

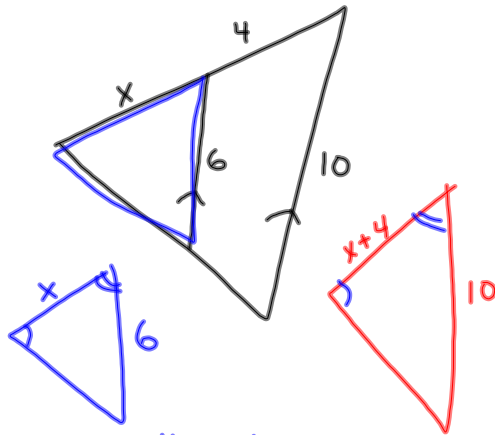


$$\frac{x}{8} = \frac{x-1}{6}$$

$$8x - 8 = 6x$$

$$\begin{array}{r} -8x \\ -8x \hline -8 = -2x \end{array}$$

$$4 = x$$



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

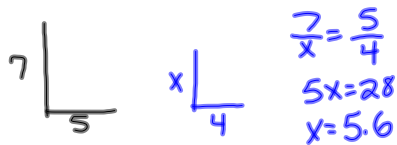
$$6(x+4) = 10x$$

$$6x + 24 = 10x$$

$$24 = 4x$$

$$x = 6$$

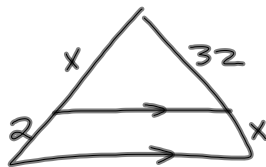
A 7 ft. tall basketball player casts a 5 ft. shadow. If my shadow is 4 ft., how tall am I?



• 6 ft. is how many inches?

$\frac{6}{10}$  of 12 inches

$$\frac{6}{10} \times \frac{12}{1} = \frac{72}{10} = 7.2 \text{ inches}$$



$$\frac{x}{2} = \frac{32}{x}$$

$$x^2 = 64$$

$$x = 8 \text{ or } -8$$

↑  
doesn't make sense since length is positive

1-16-14  
 6<sup>m</sup> 6<sup>o</sup>

Ch. 7 PT 1

(17)

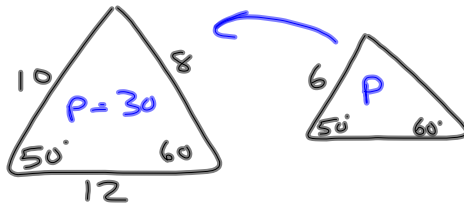


$$\frac{12}{x} = \frac{8}{6}$$

$$8x = 72$$

$$x = 9$$

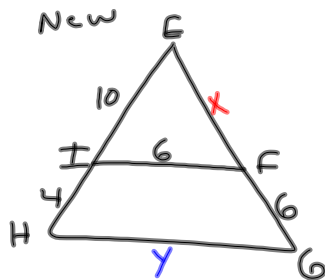
Fig. 19



$$\frac{6}{10} = \frac{P}{30}$$

$$10P = 180$$

$$P = 18$$

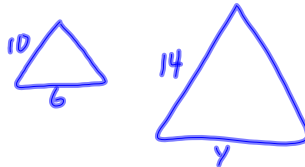


Find EF and HG.

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

$$4x = 60$$

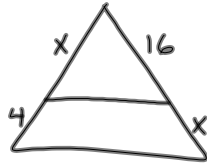
$$x = 15$$



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

$$10y = 84$$

$$y = 8.4$$



$$\frac{x}{4} = \frac{16}{x}$$

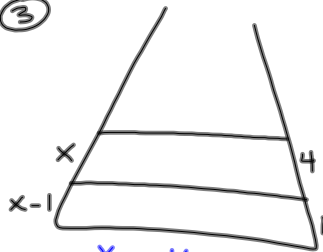
$$\sqrt{x^2} = \sqrt{64}$$

$$x = 8 \text{ or } -8$$

$$7.7 = \frac{2.7}{7^2}$$

↑  
doesn't make sense since distance can't be negative

③



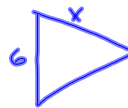
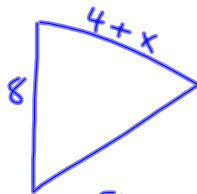
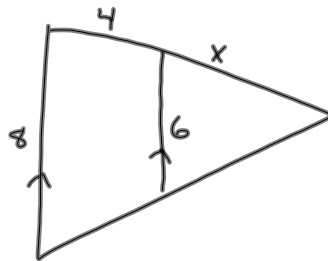
$$\frac{x}{x-1} = \frac{4}{1}$$

$$4x - 4 = x$$

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

$$\begin{array}{r} -4 \\ \hline -3 \end{array}$$

$$\frac{1}{3} = x$$



$$\frac{8}{6} = \frac{x+4}{x}$$

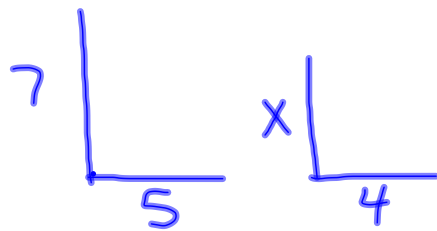
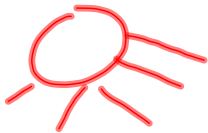
$$8x = 6(x+4)$$

$$8x = 6x + 24$$

$$2x = 24$$

$$x = 12$$

A 7 foot basketball player  
casts a 5 foot shadow.  
If my shadow is 4 ft,  
how tall am I?



$$\frac{7}{x} = \frac{5}{4}$$

$$5x = 28$$

$$x = 5.6 \text{ ft.}$$

$$.6 \text{ ft} = \underline{\hspace{2cm}} \text{ inches}$$

$$\frac{6}{10} \text{ of a foot}$$

$$\frac{6}{10} \text{ of } 12 \text{ inches}$$

$$\frac{6}{10} \times \frac{12}{1} = \frac{72}{10} = 7.2 \text{ inches}$$