

Solve for x. Show parallel, use Δ proportionality

1) midseg. when your "markings" show \cong , use Δ midsegment

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

$$x = 3$$

$$2x - 4 = 4x - 16$$

$$12 = 4x$$

$$x = -11$$

Find the missing length indicated.

2) midseg.

$$x + 27 = 2(x + 19)$$

$$x + 27 = 2x + 38$$

$$\begin{array}{r} x + 27 = 2x + 38 \\ -2x \quad -2x \\ \hline -x + 27 = 38 \\ -27 \quad -27 \\ \hline -x = 11 \\ \frac{-x}{-1} = \frac{11}{-1} \end{array}$$

3) Find WX

mids.

$$WX = 5$$

4) Find HI

midseg.

$$5$$

5) prop.

$$\frac{x}{25} = \frac{6}{15}$$

$$15x = 150$$

$$x = 10$$

6) prop.

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

$$4x = 48$$

$$x = 12$$

7) prop.

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

$$x = 8$$

8) prop.

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

$$2x = 12$$

$$x = 6$$