Show all work

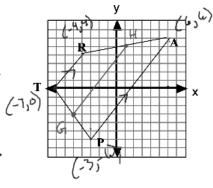
Find the midpoint of the non-parallel sides

Label the midpoints G(5, 3) & H(1, 5)

Draw the midsegment

Use the distance formula to prove the midsegment theorem

GH = ____



Slope PA
$$\frac{(4-(-4))}{(4-(-5))} = \frac{12}{9} = \frac{4}{3}$$

midpoint
$$midpoint$$
 $midpt$ TP $\left(\frac{-7+(-3)}{2}, \frac{0+(-4)}{2}\right)\left(-5,-3\right)$ $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$ $midpt$ RA $\left(\frac{6+(-4)}{2}, \frac{6+4}{2}\right)\left(1,5\right)$

$$m: lpt TP \left(\frac{-7+l-3}{2}, \frac{0+l-4}{2}\right)$$

$$\left(\frac{6+(-4)}{2},\frac{6+4}{2}\right)\left(1,5\right)$$

$$= \sqrt{4^{2} + 3^{2}}$$

$$= \sqrt{16 + 9}$$

$$= \sqrt{25} = 5$$

$$GH = \sqrt{(-5-1)^2 + (-3-5)^2}$$

$$= \sqrt{(-4)^2 + (-8)^2}$$

$$= \sqrt{36 + 64}$$

$$= \sqrt{(00)}$$

Distance =
$$V(x_2-x_1)+(y_2-y_1)$$

TR

$$C_1H$$

$$C_2 = \sqrt{(4-0)^2+(-4-(-7))^2}$$

$$C_3H = \sqrt{(-5-1)^2+(-3-5)^2}$$

$$= \sqrt{(-6)^2+(-8)^2}$$

$$= \sqrt{9^2+12^2}$$

$$= \sqrt{91+199}$$

$$= \sqrt{100}$$

$$= \sqrt{2}$$

$$\frac{5+15}{2} = 10$$

Given Trapezoid ABCD with points A (-2, -3), B(-4, 1), C(-2, 4), and D(4, 6).

Graph the figure

Prove which two sides are parallel Slope

Find the midpoint of the non parallel sides and Midpt
lable the midpoints X and Y

Draw the midsegment

Use the distance fromula to prove the Distance midsegment theorem.

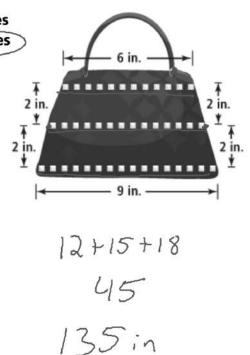
BC = ____ AD = ____ XY = ____

Paxton makes trapezoidal handbags for her friends. She stitches decorative trim along the top, middle, and bottom on both sides of the handbags. How much trim does she need for three handbags? Explain.

SOLUTION

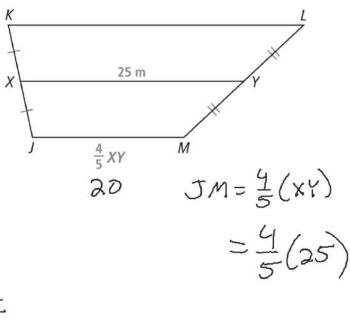
$$midses = \frac{b_1 + b_2}{2}$$

$$\frac{6+9}{2} = 7.5 \text{ in}$$



5. Given trapezoid *JKLM*, what is *KL*?

Enter your answer



$$XY = \frac{JM+ICL}{2}$$

$$25 = \frac{20+ILL}{2}$$

$$50 = 20+ICL$$

$$KL = 30$$