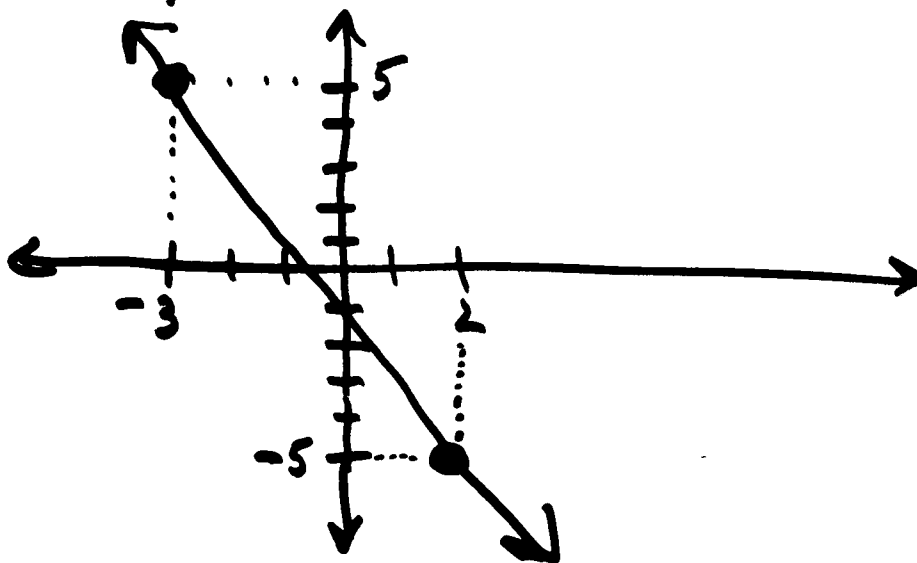


**BE-1B** TUESDAY 2-12-08

---

① WHAT is THE distance between  $(5, 1)$  and  $(-4, -2)$  ?

② What is THE distance between the 2 points shown:

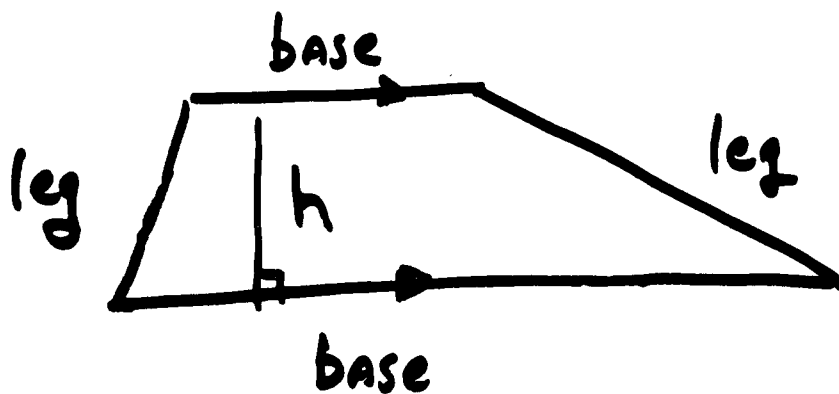


~~~~~ MHSCE WB ~~~~~

① Pg 52 # 2

② Pg 53 # 5

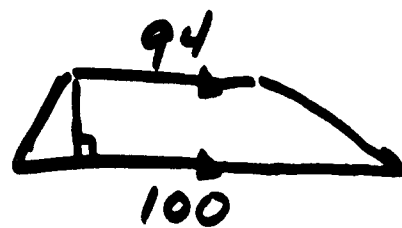
trapezoid A quadrilateral with  
 4 sides  
 Exactly one pair of  
 parallel sides.



$$\text{Area}_{\Delta} = \frac{1}{2} h (b_1 + b_2)$$

↑  
 height is the  
 perpendicular distance between  
 bases

ex) Find Area of:  $\frac{106}{\uparrow}$



$$A = \frac{1}{2} h (94 + 100)$$

$$A = \frac{1}{2} (106)(194) = (53)(194) = \boxed{10,282 \text{ units}^2}$$

midpoint the midpoint of a line segment is the point that lies EXACTLY halfway between the two endpoints.

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To find the coordinates of the midpoint between  $(2, 3)$ ,  $(6, 9)$

(middle of the x's, middle of the y's)

$$\left( \frac{6+2}{2}, \frac{9+3}{2} \right)$$

$$\left( \frac{8}{2}, \frac{12}{2} \right)$$

$$\boxed{(4, 6)}$$

check with  
graph

Midpoint  
Formula

$$M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

---

Ex) Find the mid points:

①  $(7, 1), (-3, 1)$

②  $(5, -2), (9, -8)$

③  $(-4, 4), (4, -4)$ .

---

Calculator tips:  $(-4)^2$   
 $(-4)^3$   
 $-(4)^2$

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Homework: Find D and M

Pg 613 #18-22