

Coordinate Geometry Test

SOLUTIONS

Part I:

Identify the Quadrant or Axis of each point.

- a) (2, -3)    b) (-2, 3)    c) (1, 210)    d) (-21, -3.44)    e) (0, 9)    f) (9, 0)
- IV            II            I            III            y-axis            x-axis



Part II:

- A = (4, 9)  
B = (4, -3)  
C = (8, 17)  
D = (x, y)

a) What is the Distance between A and B? Midpoint?

distance = 12 units    midpoint: (4, 3)

b) What is the length of  $\overline{AC}$ ? Midpoint of  $\overline{AC}$ ?

Use distance formula to find length of  $\overline{AC}$ :  $\sqrt{(8-4)^2 + (17-9)^2} = \sqrt{80} = 4\sqrt{5}$     Midpoint:  $(\frac{4+8}{2}, \frac{9+17}{2}) = (6, 13)$

c) If C is the midpoint of  $\overline{BD}$ , what are the coordinates of D?

From B to C: x goes from 4 to 8 (+4)  
y goes from -3 to 17 (+20)

D = (12, 37)

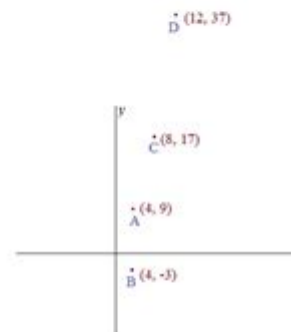
From C to D: x (+4) goes from 8 to 12  
y (+20) goes from 17 to 37

d) What is the slope of  $\overline{BC}$ ?  $\overline{AB}$ ?  $\overline{BD}$ ?

slope  $m = \frac{y_2 - y_1}{x_2 - x_1}$   
 $m = \frac{\text{rise}}{\text{run}}$

$\overline{BC} = \frac{-3 - 17}{4 - 8} = 5$      $\overline{AB}$  is undefined ("no slope")

slope of  $\overline{BD}$  is also 5



Part III: A rectangle has the following vertices: (1, 1) (7, 1) (1, 4)

a) Where is the 4th vertex?

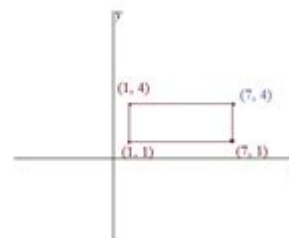
(7, 4) is the 4th vertex

b) What is the perimeter of the rectangle?

length: 6 units  
width: 3 units    perimeter: 18 units

c) What is the area of the rectangle?

area = length x width  
area = 18 square units



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