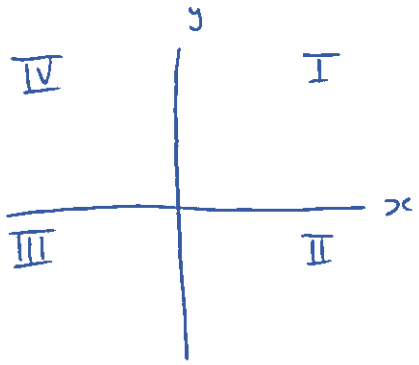
A Coordinate Geometry

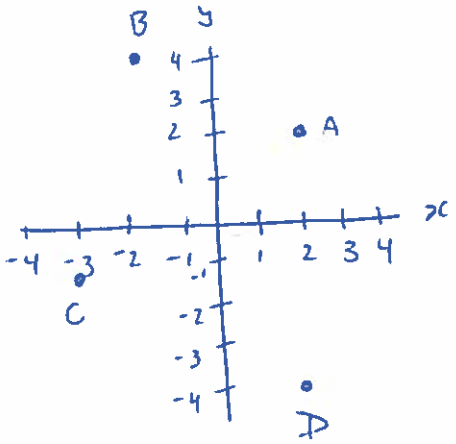
Remember:



Quadrants

Examples:

1.



a) Identify the coordinates shown above.

(x, y)

A(2,2) B(-2,4) C(-3,-1) D(2,-4)

b) Write the coordinates of any point found on the axis between:

i) the 1st and 2nd Quadrant.

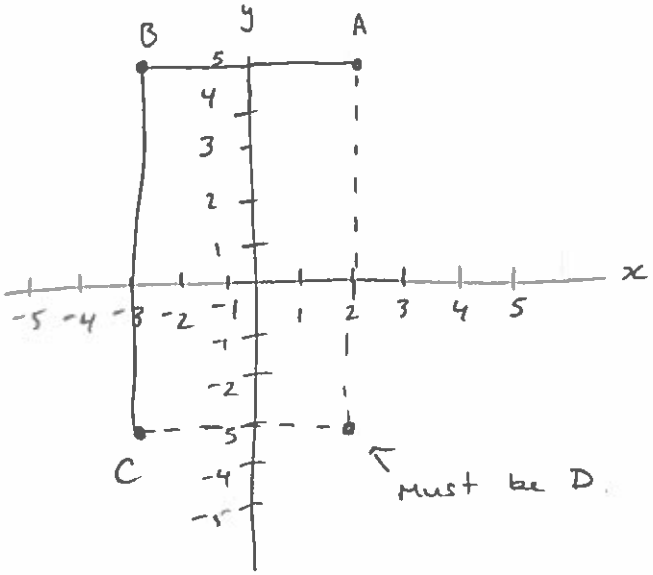
(1,0), (2,0), (3,0) . . . .

ii) ~~the~~ the 3rd & 4th Quadrant

(-1,0), (-2,0), (-3,0) . . . .

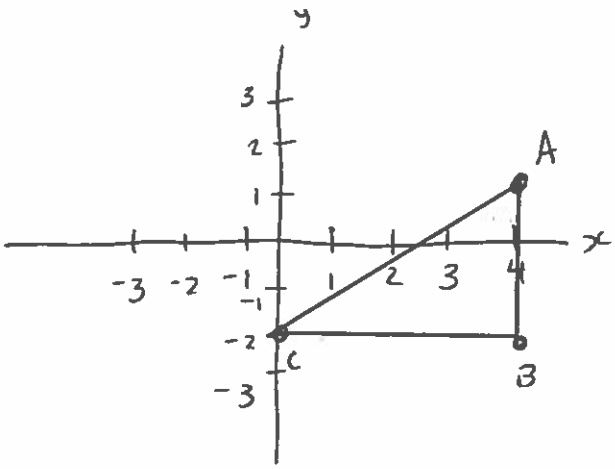
2. The coordinates of the vertices of a ~~triangle~~ rectangle are A(2,5), B(-3,5), C(-3,-3). Find the missing coordinate

D.



D(2,-3)

3. The coordinates of a triangle are shown below.



a) Find the length of $\overline{AB}$, $\overline{BC}$ and $\overline{AC}$.

$\overline{AB}$ = 3 units (count)

$\overline{BC}$ = 4 units (count)

$\overline{AC}$: $a^2 + b^2 = c^2$

$(3)^2 + (4)^2 = c^2$

$9 + 16 = c^2$

$\sqrt{25} = \sqrt{c^2}$

5 units = c = $\overline{AC}$.

Assignment: Worksheet Pg. 309 [Check marked 8 questions]