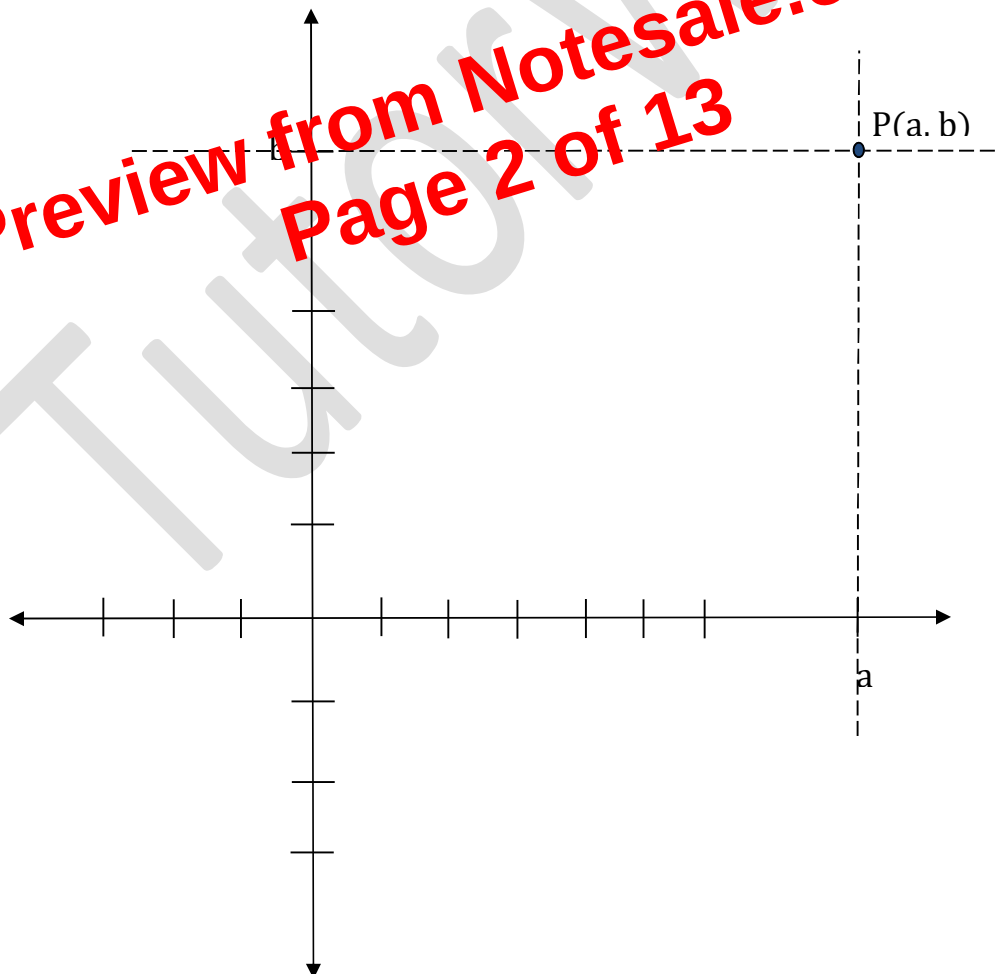


In the last StudyNote 1, we have learned the importance of linear coordinate system, absolute values, and inequality. In this StudyNote 2, we will also learn the one of the most important representation in Calculus. Rectangular coordinate system provides an overview of how we calculate the distance between two points, the slope, midpoints, and other geometric properties that are essential in learning Calculus as well. In this StudyNote, TutorWin will provide the keys on the concept of the RCS.

X AND Y AXIS

In a rectangular coordinate system, we could see the two lines intersecting at each other. The horizontal line or horizontal axis is the x-axis while the vertical line/axis is the y-axis. See the figure below.



Step 2. Find the y coordinate.

- $y = \frac{y_1 + y_2}{2}$
- $y = \frac{2 + 5}{2}$
- $y = \frac{7}{2}$
- $y = 3.5$

Step 3. The midpoint of the segment has coordinates (-1, 3.5)

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