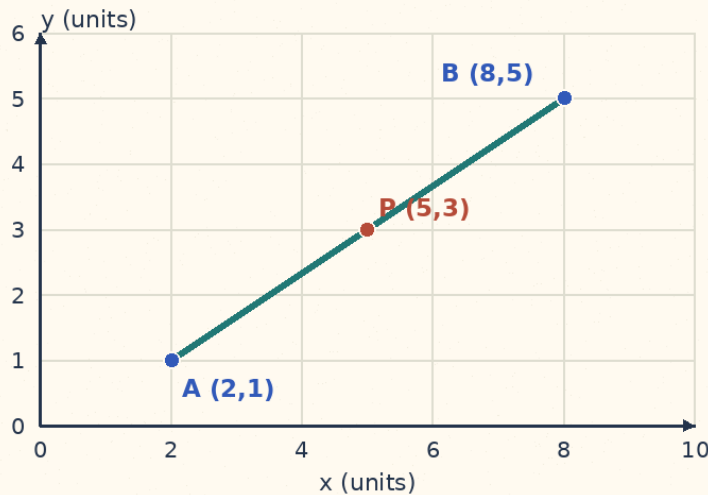


UNIT 03 · LOOK & EXPLAIN

Coordinates and similar shapes

The midpoint averages both coordinates

Worked example: A(2,1), B(8,5)



Equal scales on both axes. The two segments have the same length.

Midpoint P

$$x = (2 + 8) / 2$$

$$= 5$$

$$y = (1 + 5) / 2$$

$$= 3$$

$$AP = PB = \sqrt{13}$$

Use the labels and worked example to explain the idea. The diagram is schematic unless a scale is given.

Look, annotate and explain

Identify the parts or values that matter. Add a label or annotation to show a connection. Explain how the diagram supports the worked example, then use it with the practice on the next page.