## Coordinate Geometry

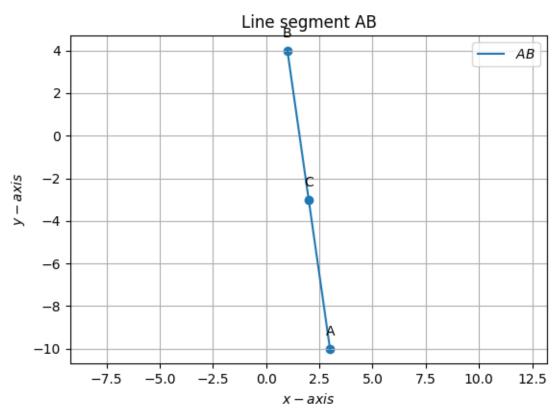
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## Class $10^{th}$ Maths - Chapter 7

This is Problem-7 from Exercise 7.4

1. Find the coordinates of a point A, where AB is the diameter of a circle whose centre is (2, -3) and B is (1, 4).



**Solution:** :  $c = \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$ 

$$c = (\frac{x+1}{2}, \frac{y+4}{2}) \tag{1}$$

$$2 = \frac{x+1}{2} \tag{2}$$

$$x = 3 \tag{3}$$

$$so,$$
 (4)

$$-3 = \frac{y+4}{2} \tag{5}$$

$$y = -10 \tag{6}$$

(7)

hence, the coordinates are (3,-10)