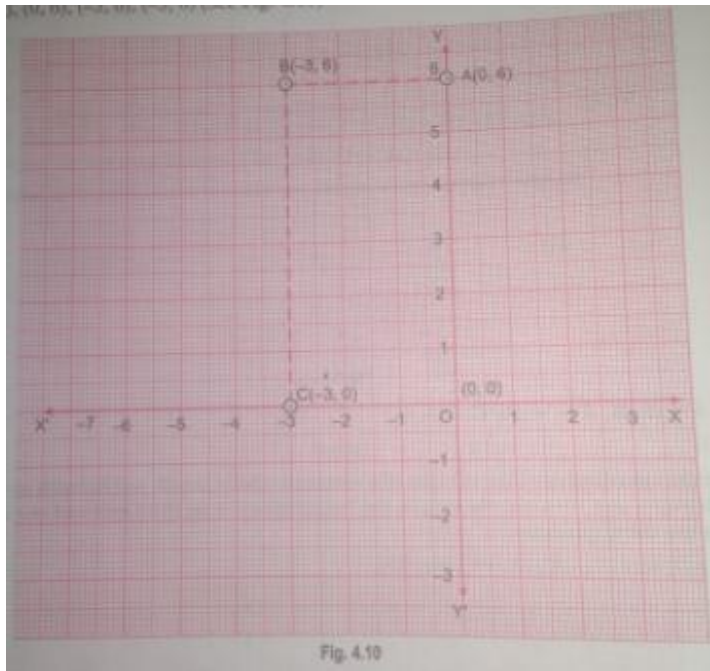


## Long Answer Type Questions

[4 MARKS]

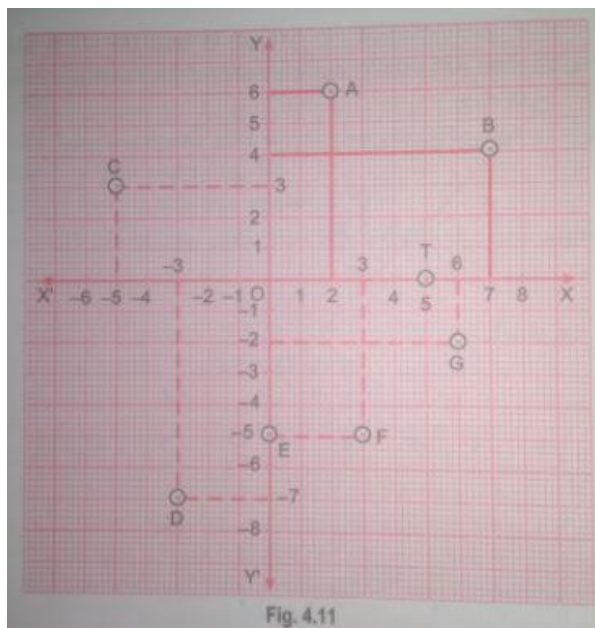
**Que 1.** Write the coordinates of the vertices of a rectangle whose length and breadth are 6 and 3 units respectively, one vertex at the origin, the longer side lies on the longer side lies on the  $y$ -axis and one of the vertices lies in the second quadrant.

**Sol.**  $(0, 0), (0, 6), (-3, 6), (-3, 0)$  (See Fig. 4.10)



**Que 2.** From Fig. 4.11, answer the following:

- (i) Coordinates of point C.
- (ii) The point identified by the coordinates  $(-3, -7)$ .
- (iii) The abscissa of the point E.
- (iv) The ordinate of the point F.
- (v) Coordinates of point O.
- (vi) The quadrant in which point G lies.
- (vii) The perpendicular distance of the point A from the  $x$ -axis.
- (viii) The perpendicular distance of the point B from the  $y$ -axis.

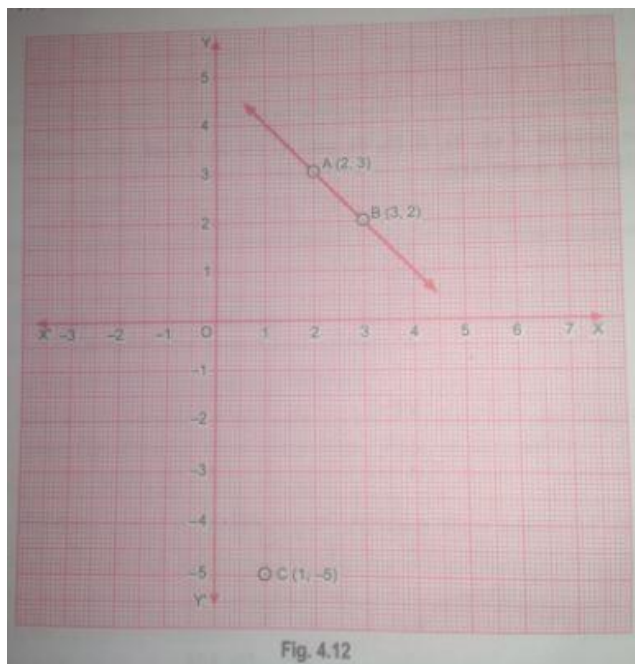


**Sol.** (i)  $(-5, 3)$  (ii)  $D$  (iii)  $0$  (iv)  $-5$   
 (v)  $(0, 0)$  (vi) Fourth (vii) 6 units (viii) 7 units

**Que 3. Plot the following points and check whether they are collinear or not:**

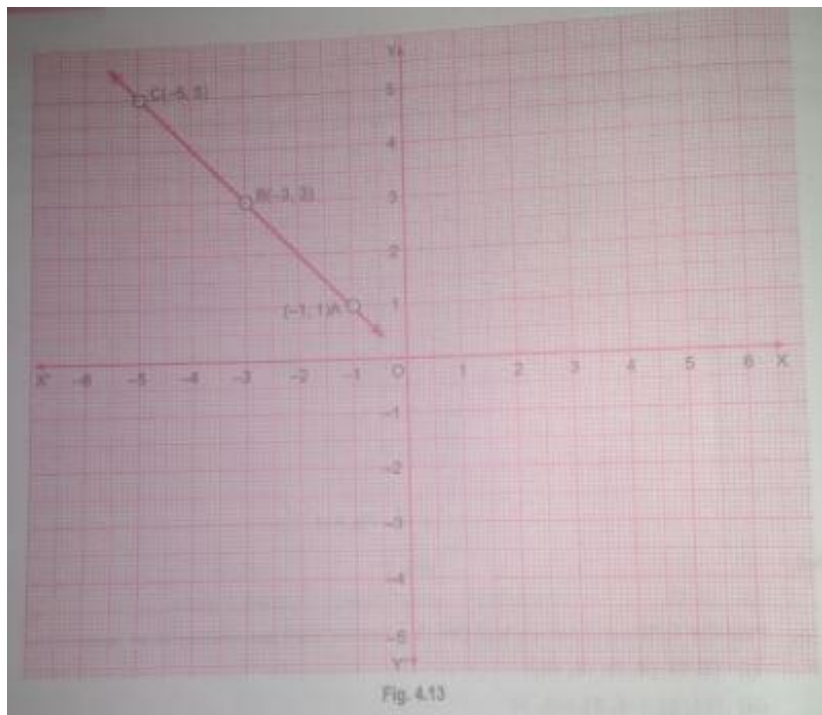
- (i)  $(2, 3), (3, 2), (1, -5)$   
 (ii)  $(-1, 1), (-3, 3), (-5, 5)$

**Sol.** (i)



The points are non-collinear.

(ii)



Yes, the points are collinear.