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DEPARTMENT: MECHATRONICS

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ASSIGNMENT

If A and B are the points (5,3) and (15,-7) respectively. Find the coordinates of the point which divides AB externally in the ratio 3:1

SOLUTION

Let C be the point that divides the line AB

Let (x.y) be the required coordinates of c. Since C divides the line-segment AB externally in the ratio 3:1 hence;

X=(5,15) y=(3,-7)

To get the co-ordinate of c we use this formula;

P = {()/(m-n), ()/(m-n)}

Where x =

And y =

m = 3 n = 1

substituting the values; = = = 20

= = = -12

Therefore the co-ordinates of the point C that divides AB externally are (20, -12 )