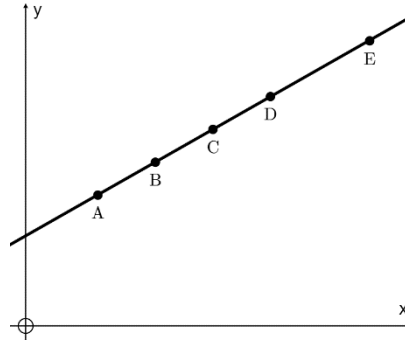


a)
A, B, C, D and E are points on a straight line.

A, B, C and D are equally spaced.
 $AD : DE = 4 : 3$.

A is the point (5, 12) and B is the point (9, 15).

Work out the coordinates of the point E.

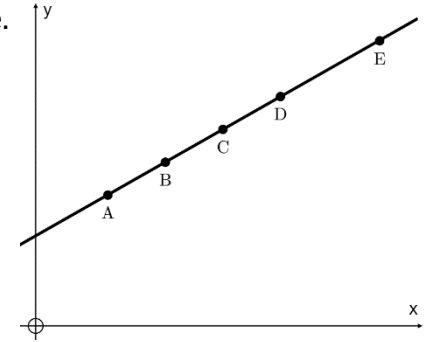


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b) The points L, M and N are such that LMN is a straight line.
The coordinates of L are (-3, 1).
The coordinates of M are (4, 9).
Given that $LM:MN = 2 : 3$, find the coordinates of N.

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The coordinates of L are (-3, 1).
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c) The points L, M and N are such that LMN is a straight line.
The coordinates of L are (-3, 6).
The coordinates of N are (12, -9).
Given that $LM:MN = 2 : 3$, find the coordinates of M.

c) The points L, M and N are such that LMN is a straight line.
The coordinates of L are (-3, 6).
The coordinates of N are (12, -9).
Given that $LM:MN = 2 : 3$, find the coordinates of M.