Find the equation of a straight line through two given points

Miss Parnham
Maths

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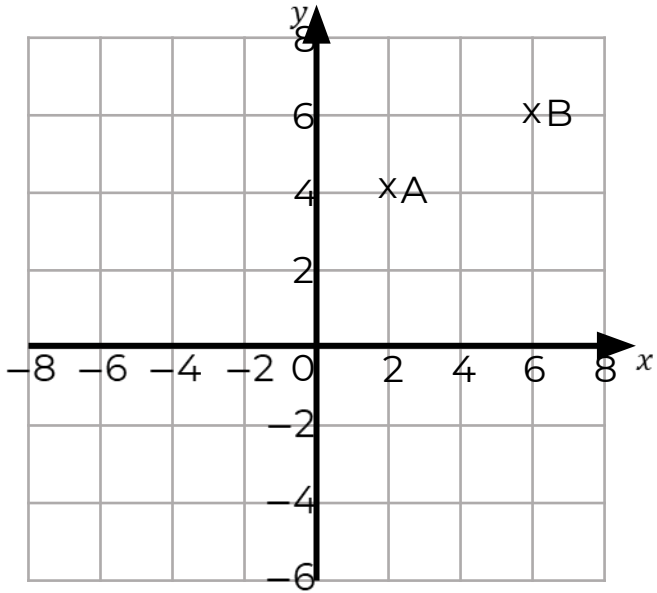
1. Find the equation of the straight line through point A and B.



2. Find the equation of the straight lines that pass through these points.

a) (2, 5) and (4, 15)

b) (4, 10) and (7, 1)

c) (−5, 4) and (−3, 1)

d) (−10, −5) and (−7, 4)

e) The origin and (4, −2)

3. Does the point (7, 9) lie on the line that passes through the points (10, 2) and (5,12)?

Answers

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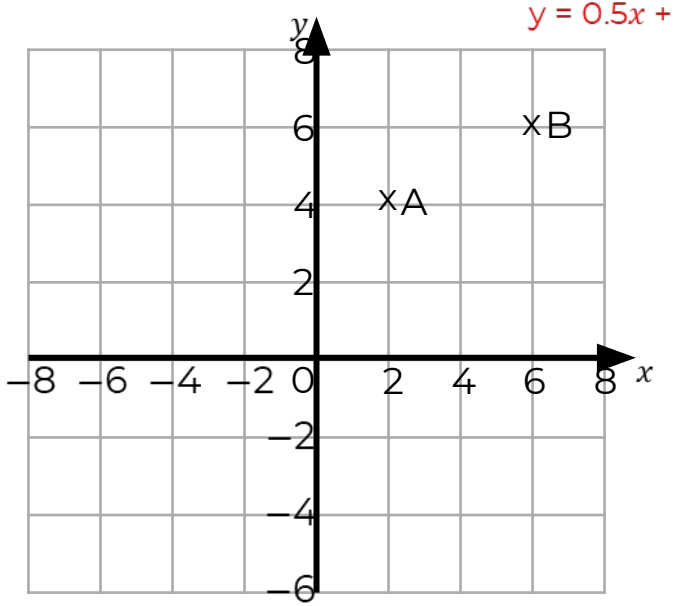
1. Find the equation of the straight line through point A and B.



y = 0.5x + 3

2. Find the equation of the straight lines that pass through these points.

a) (2, 5) and (4, 15) y = 5x − 5

b) (4, 10) and (7, 1) y = −3x + 22

c) (−5, 4) and (−3, 1) y = −1.5x − 3.5

d) (−10, −5) and (−7, 4) y = 3x + 25

e) The origin and (4, −2) y = −0.5x

3. Does the point (7, 9) lie on the line that passes through the points (10, 2) and (5,12)? No it doesn't lie on the line
y = −2x + 22