

Finding Equations from Two Points

Find the gradients and equations of the straight lines through these pairs of points. Give your answers in the form $y = mx + c$

- (a) (0, 0) and (2, 8)
- (b) (0, 0) and (8, 2)
- (c) (3, 0) and (5, 6)
- (d) (3, 0) and (5, 5)
- (e) (0, 8) and (4, 0)
- (f) (1, 5) and (3, 1)

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Find the gradients and equations of the straight lines through these pairs of points. Give your answers in the form $ax + by = c$ where a , b and c are integers.

- (a) (0, 0) and (4, 2)
- (b) (0, 1) and (4, 3)
- (g) (0, 1) and (3, 2)
- (h) (3, 3) and (9, -3)
- (i) (2, 4) and (-2, 16)
- (j) (4, 4) and (-8, -2)

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A line L passes through the points A (2, 5) and B (4, 9). Find the equation of the line.

Another line M is perpendicular to line L and passes through B. Find the equation of this line.

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A straight line passes through the points (-4, 7), (6, -5) and (8, t). Use an algebraic method to find the value of t .

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