

Finding the Equation of a Straight Line from the Gradient and a Point

- (a)** Find the equation of the line with gradient 7 that passes through (1, 3)
- (b)** Find the equation of the line with gradient -2 that passes through (4, 3)
- (c)** Find the equation of the line with gradient 2 that passes through (1, -4)
- (d)** Find the equation of the line with gradient -3 that passes through (-1, 6)

- (e)** Find the equation of a line which is parallel to $y = 2x + 1$ and passes through (3, 1).
- (f)** Find the equation of a line which is parallel to $y = 3x + 1$ and passes through (6, 10).
- (g)** Find the equation of a line which is parallel to $y = 5x - 2$ and passes through (5, 7).
- (h)** Find the equation of a line which is parallel to $y = 4x - 7$ and passes through (4, -3).

- (i)** Find the equation of a line which is perpendicular to $y = 2x + 6$ and passes through (6, 4).
- (j)** Find the equation of a line which is perpendicular to $y = -4x + 7$ and passes through (12, 15).
- (k)** Find the equation of a line which is perpendicular to $y = \frac{1}{5}x + 6$ and passes through (3, 1).
- (l)** Find the equation of a line which is perpendicular to $y = -\frac{1}{6}x + 3$ and passes through (2, 10).

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