**Finding Gradients from Coordinates**

Find the gradients of the straight lines through these pairs of points.

**(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)

**(g)** (1, 5) and (3, -1)

**(h)** (3, 3) and (9, -3)

**(i)** (2, 4) and (-2, 16)

**(j)** (4, 4) and (-8,-2)

**(k)** A line with a gradient of 3 passes through the points (2, 6) and (4, a). Find the value of a.

**(l)** A line with gradient -2 passes through the points (5, 5) and (b, 9). Find the value of b.

**(m)** A line with gradient ½ passes through the points (c, 8) and (-1, 5). Find the value of c.

**(n)** Find the gradient of the line joining the points (4, 5) and (6, 5). What is the equation of this line?

**(o)** Find the gradient of the line joining (9, -1) and (9, 5). What is the equation of this line?

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