Straight Line Graphs

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HANDS UP 3

(a) Factorise

(i) $x^2 - 2x - 15$.

$(x-5)(x+3)$

[2]

(ii) $6x^2 - 8xy$.

$2x(3x-4y)$

[2]

1

Find the equation of the line that passes through the points (0, 8) and (–2, 2).

$y = mx + c$

$m = \frac{\text{change in } y}{\text{change in } x} = \frac{-6}{-2} = +3$

$y = 3x + c$

$(0, 8)$ $\quad 8 = 3 \times 0 + c$

$c = 8$

$\therefore y = 3x + 8$

[4]

Turn over.

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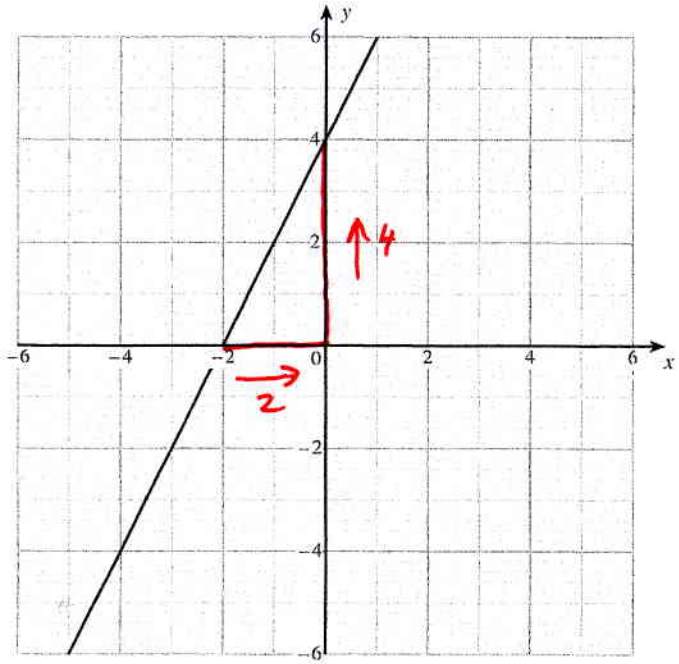
2

Write down the equation of the straight line shown in the following diagram in the form $y = mx + c$.



$c = 4 \qquad m = \frac{4}{2} = 2$

Equation of the straight line is $y =$ 2 $x +$ 4

[3]

Turn over.