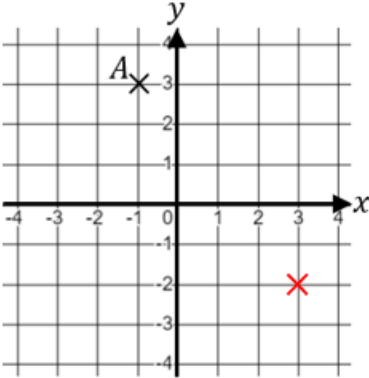
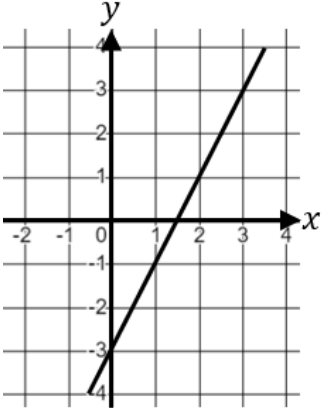


## Algebra Revision

2

<b>Algebra Revision</b>				<b>2</b>
<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>	
Simplify $2a^2b^3c \times 5ab^2c^2$  $10a^3b^5c^3$	Find the nth term of the sequence : 1, 7, 13, 19, ...  $6n - 5$	Make $x$ the subject of $y = ax + b$  $x = \frac{y - b}{a}$	(i) Write down the coordinates of point A $(-1, 3)$  	
<b>(e)</b>	<b>(f)</b>	<b>(g)</b>		
Solve $5x - 3 = x + 12$  $x = \frac{15}{4}$	Expand and simplify $5(x + 2) - 2(x - 3)$  $3x + 16$	Solve $3y + 11 \geq 2$  $y \geq -3$	(ii) Plot the point $(3, -2)$ on the grid above.	
<b>(h)</b>	<b>(i)</b>	<b>(j)</b>	<b>(k)</b>	
$-9 < 3x \leq 15$ Write down all the possible integer values of $x$ .  $-2, -1, 0, 1, 2, 3, 4, 5$	Factorise fully $10xy^2 + 25x^2y$  $5xy(2y + 5x)$	Expand and simplify $(x + 5)(x - 2)$  $x^2 + 3x - 10$	Find the equation of the straight line shown.  	
<b>(l)</b>	<b>(m)</b>	<b>(n)</b>		
Solve $7(x + 3) = x - 3$  $x = -4$	Write down the gradient of the straight line with equation $y = -5x + 4$  $-5$	Solve $x + 5 = \frac{2x - 3}{4}$  $x = -11.5$		