

## Straight line graphs Answers 2

- 1) 

<p><b>(a)</b> <math>(-5, 0)</math></p> <p><b>(b)</b> <math>-2</math></p> <p><b>(c)</b> <math>2\frac{1}{2}</math> or <math>\frac{5}{2}</math></p>	<p><b>2</b></p> <p><b>1</b></p> <p><b>2</b></p>	<p><b>B1</b> <math>(k, 0)</math> or <math>(-5, k)</math></p> <p><b>M1</b> <math>\frac{5}{4} = \frac{k}{2}</math> oe</p>
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- 2) 

<p><b>(b)</b> <math>(4, 2)</math></p> <p><b>(c)</b> <math>y = -2x + 10</math> oe</p>	<p><b>1</b></p> <p><b>3</b></p>	<p><b>B1</b> correct <math>m</math> <b>B1</b> correct <math>c</math></p> <p><b>M1</b> correct use of <math>y = mx + c</math> oe on answer line</p>
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- 3) 

<p><b>(a)</b> <math>(0, 7)</math></p> <p><b>(b) (i)</b> <math>y = 2x + 3</math></p> <p><b>(ii)</b> <math>(1, 4)</math></p>	<p><b>1</b></p> <p><b>2</b></p> <p><b>3</b></p>	<p><b>B1</b> <math>y = 2x + c, c \neq 7</math> or <b>B1</b> <math>y = kx + 3, k \neq 0</math></p> <p><b>B1</b> <math>y = 5</math></p> <p><b>M1</b> <math>\left(\frac{0+2}{2}, \frac{3+5}{2}\right)</math> <b>A1</b> <math>(1, 4)</math></p>
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- 4) 

<p><b>(a)</b> <math>10</math></p> <p><b>(b)</b> <math>y = -4x + 5</math> oe</p> <p><b>(c)</b> <math>y = -4x + 24</math> oe</p>	<p><b>2</b></p> <p><b>2</b></p> <p><b>3</b></p>	<p><b>M1</b> <math>x = -4</math> and <math>x = 6</math> seen</p> <p><b>B1</b> <math>y = mx + 5 (m \neq 0)</math> or <math>y = -4x + k (k \neq 0)</math> or <math>y = -4x + 5</math></p> <p><b>M1</b> <math>m = -4</math> or gradient = <math>-4</math> or <math>y = -4x + c</math></p> <p><b>M1</b> <math>(5, 4)</math> substituted into <math>y = mx + c</math></p>
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