



Air maths tuition

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## Simultaneous Equations - Elimination method - Tutorial 4

<p>④ <math>4x - 3y = 6</math> ① <math>2x - 3y = 0</math> ②</p> <p>① - ② : <math>\therefore 2x = 6</math>      <math>-3y - (-3y) = 0</math> <math>\therefore x = 3</math></p> <p>Sub. <math>x = 3</math> into ① <math>\therefore 4(3) - 3y = 6</math> <math>\therefore 12 - 3y = 6</math> <math>\therefore 6 = 3y</math> <math>\therefore y = 2</math> <math>\therefore x = 3, y = 2</math></p>	<p>① <math>x + y = 6</math> <math>x - y = 2</math> } <math>x = 4, y = 2</math></p> <p>② <math>2x + 3y = 7</math> <math>2x + y = 5</math> } <math>x = 2, y = 1</math></p> <p>③ <math>3x - 2y = 7</math> <math>5x + 2y = 17</math> } <math>x = 3, y = 1</math></p> <p>④ <math>4x - 3y = 6</math> <math>2x - 3y = 0</math> } <math>x = 3, y = 2</math></p> <p>⑤ <math>5x + 4y = 13</math> <math>x + 4y = 9</math> } <math>x = 1, y = 2</math></p> <p>⑥ <math>7x - 2y = 22</math> <math>5x + 3y = 29</math> } <math>x = 4, y = 3</math></p>
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