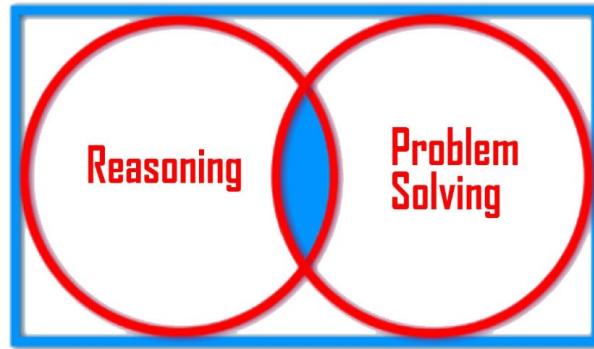


Bridging the Gap

GCSE to A – Level Transition



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Simultaneous Equations

Answers

<p>1</p>	<p>Solve the following simultaneous equations</p> <p>a) $6x - y = 35$ $5x + y = -2$</p> <p>b) $-x + 7y = 2$ $2x + y = 20$</p> <p>c) $3x - y = -6$ $2x - 2y = 7$</p> <p>Answers</p> <p>a) $x = 3$ and $y = -17$</p> <p>b) $x = 9.2$ and $y = 1.6$</p> <p>c) $x = -19$ and $y = -51$</p>
<p>2</p>	<p>Solve the following simultaneous equations</p> <p>a) $5x + 3y = 4$ $4x - 2y = 1$</p> <p>b) $5y - 3x = 2$ $-2x + 6y = 4$</p> <p>Answers</p> <p>a) $x = 0.5$ and $y = 0.5$</p> <p>b) $x = 1$ and $y = 1$</p>
<p>3</p>	<p>Find the coordinates at which the line $y = 2x$ crosses the curve $y = x^2 - 5x + 6$</p> <p>Answers</p> <p>(1, 2) and (6, 12)</p>
<p>4</p>	<p>Solve the simultaneous equations</p> $y = 2x^2 + 3x - 7$ $x + y = 3$ <p>Give your answers to 1 decimal place</p> <p>Answers</p> <p>$x = 1.4$ and $y = 1.6$</p> <p>or $x = -3.4$ and $y = 6.4$</p>
<p>5</p>	<p>Find the coordinates where the curve $x^2 + y^2 = 81$ is intersected by the line $y = x - 3$. Give your answers to 3 significant figures.</p> <p>Answers</p> <p>$x = 7.69$ and $y = 4.69$</p> <p>or $x = -4.69$ and $y = -7.69$</p>