



Air maths tuition

Interact, engage and perform

Inequalities | Shading regions for a linear inequality in two variables

<p>Shade $2x - y \geq 0$ ①</p> <p>$\therefore 2x \geq y \Rightarrow y \leq 2x$ ②</p> <p>Test A(0,1)</p> <p>Sub in ① $-1 \geq 0$ False</p> <p>Sub in ② $1 \leq 0$ False</p> <p>Test B(1,0)</p> <p>Sub in ① $2 \geq 0$ True</p> <p>Sub in ② $0 \leq 2$ True</p>	<p>Shade $2x + 3y < 6$ * ①</p> <p>Same as $y < -\frac{2}{3}x + 2$ ②</p> <p>* when $x = 0, y = 2$ when $y = 0, x = 3$</p> <p>Test O(0,0)</p> <p>Sub in ① $0 < 6$ True</p> <p>Sub in ② $0 < 2$ True</p>	<p>Shade $5y - 2x \geq 10$</p> <p>Test O(0,0)</p> <p>gives $0 \geq 10$ False</p> <p>Shade $y + x < 0 \Rightarrow y < -x$</p> <p>Test A(0,1) $\therefore 1 < 0$ False</p>
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