Maths

Shade in the Region Defined by Several Inequalities

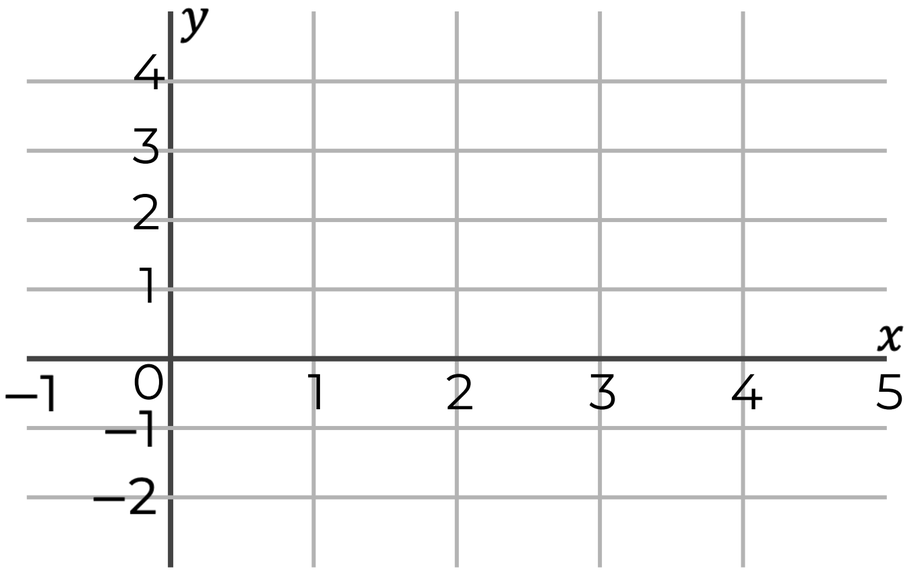
Miss Davies

Please note some slides do have colour images on them

Representing inequalities on a coordinate grid

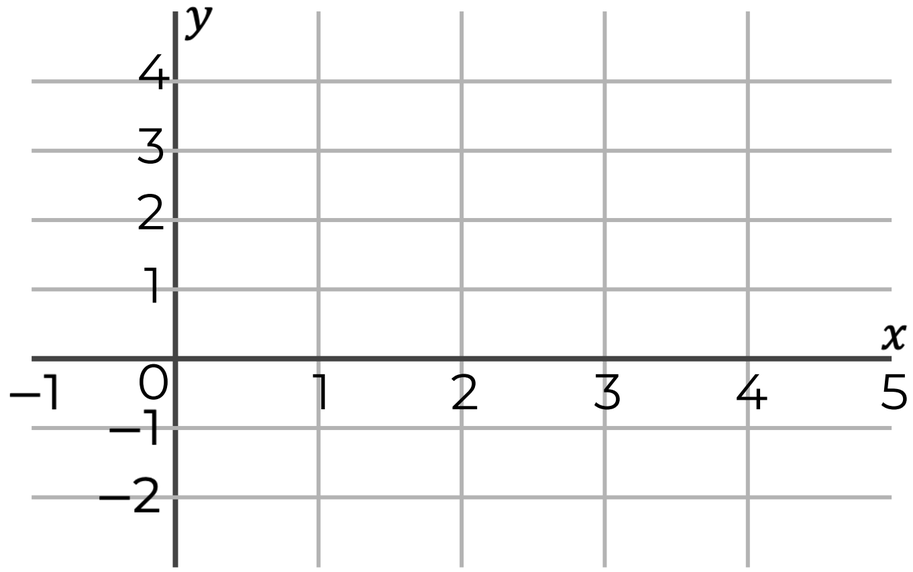
1. Shade the region that satisfies both of the inequalities

$y \leq \frac{1}{2}x + 1$ and $x > 2$



2. Shade the region that satisfies both of the inequalities.

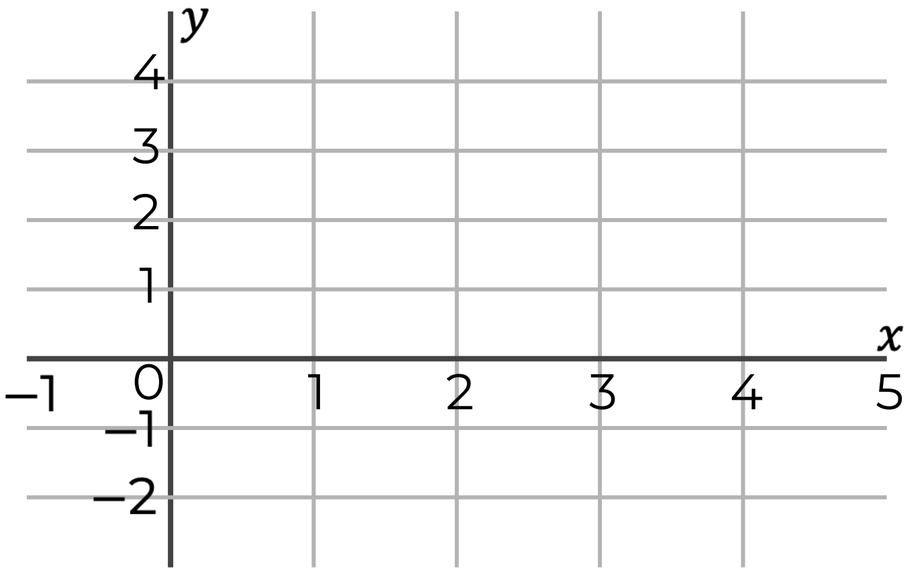
$y < -x + 3$ and $y < 2$



Representing inequalities on a coordinate grid

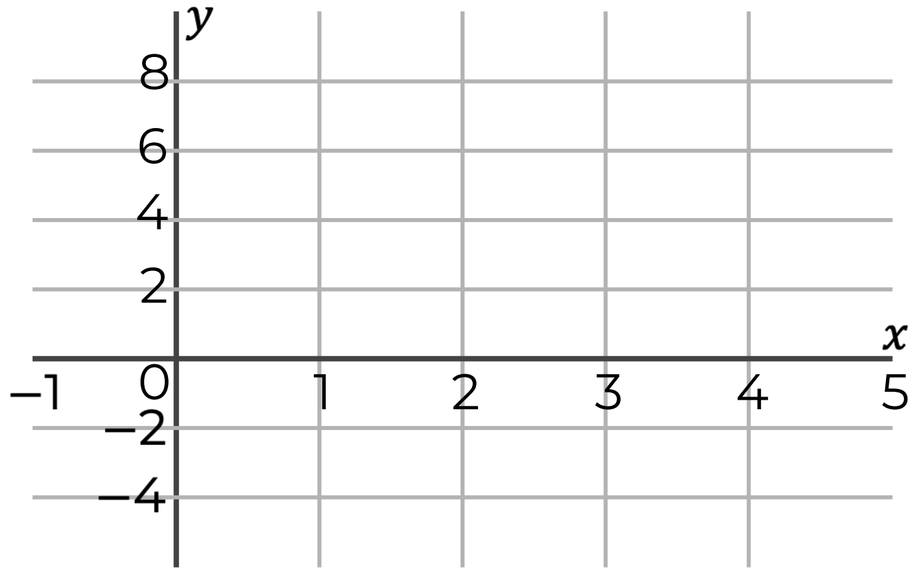
3. Shade the region that satisfies both of the inequalities.

$y \geq -x + 2$ and $y < 2x + 1$



4. Shade the region that satisfies all of the inequalities.

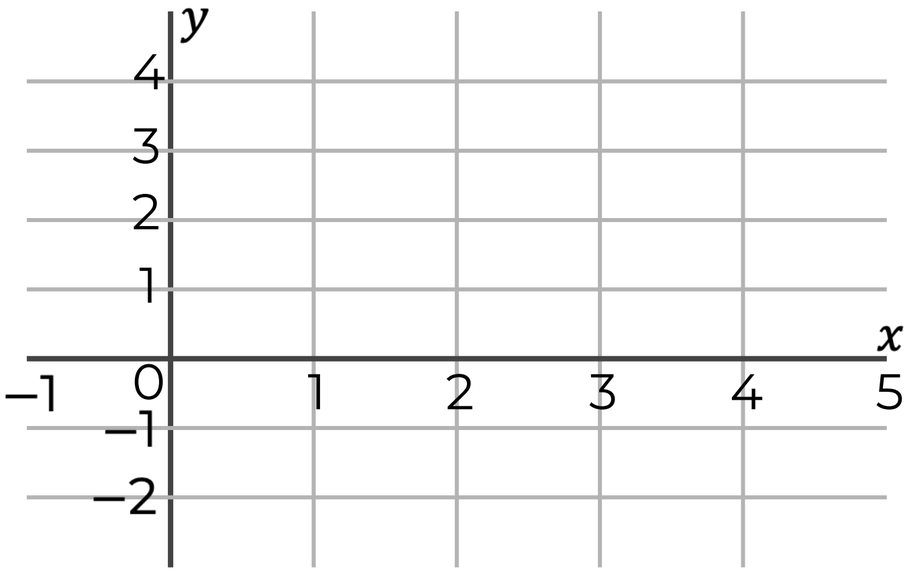
$y > -6x + 8$ $y \leq 8$ $x > 1$



Representing inequalities on a coordinate grid

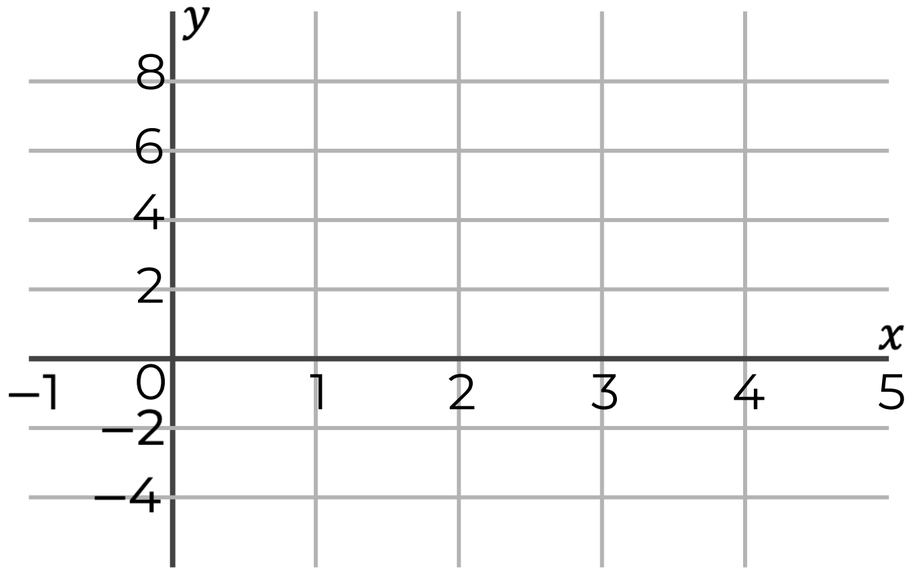
5. Shade the region that satisfies all of the inequalities.

$\frac{1}{2}y + \frac{1}{2}x > 1$ $y \leq x$ $x < 4$



6. Shade the region that satisfies all of the inequalities.

$y > -4x$ $y \geq 2x - 4$ $0 > x + y$

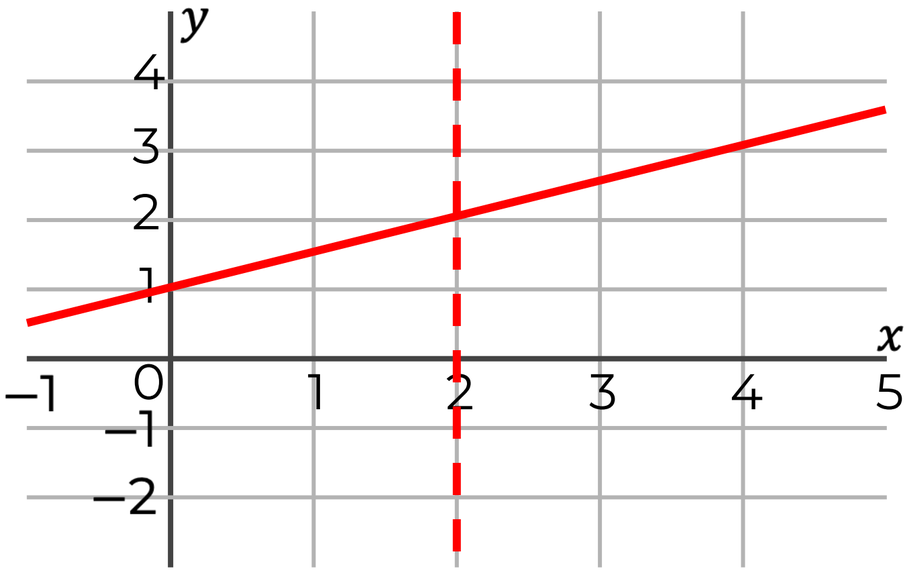


Answers

Representing inequalities on a coordinate grid

1. Shade the region that satisfies both of the inequalities

$y \leq \frac{1}{2}x + 1$ and $x > 2$



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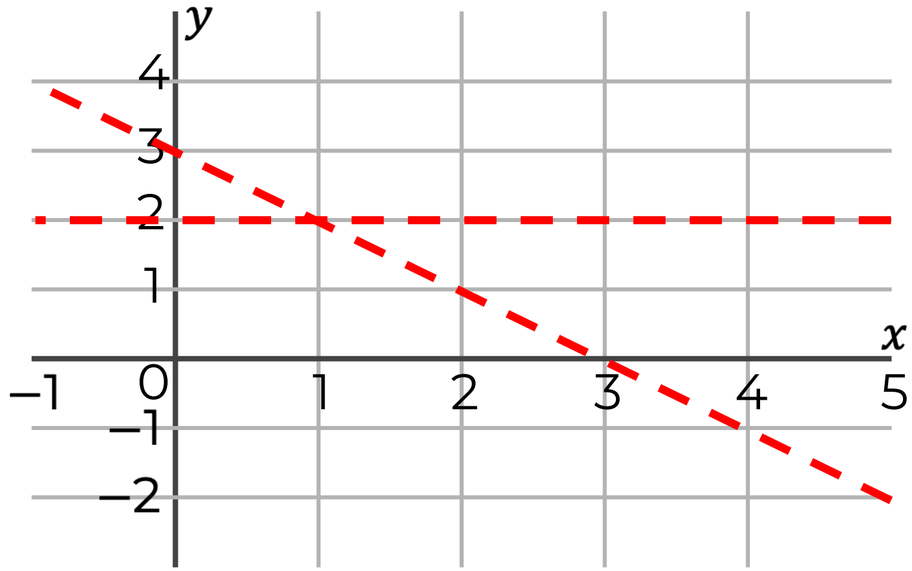

Representing inequalities on a coordinate grid

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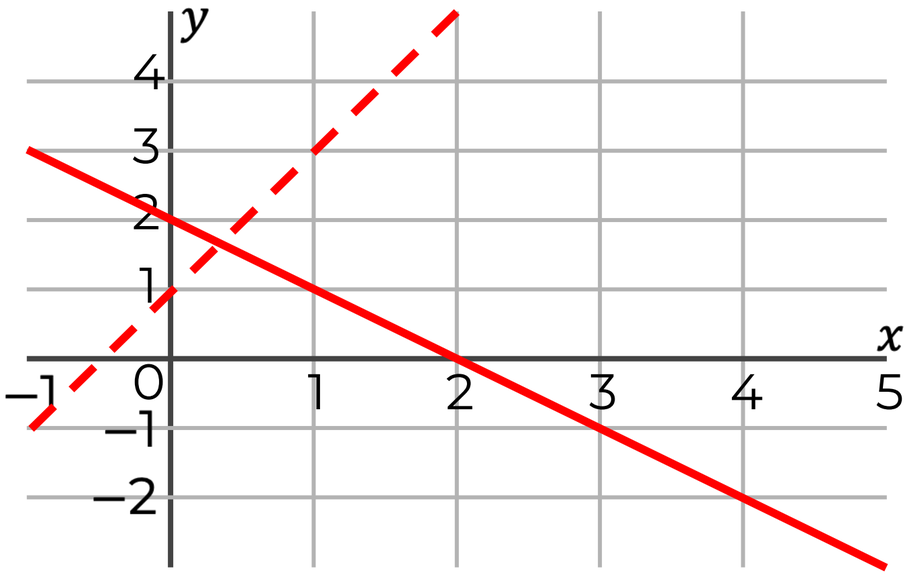
$y \geq -x + 2$ and $y < 2x + 1$



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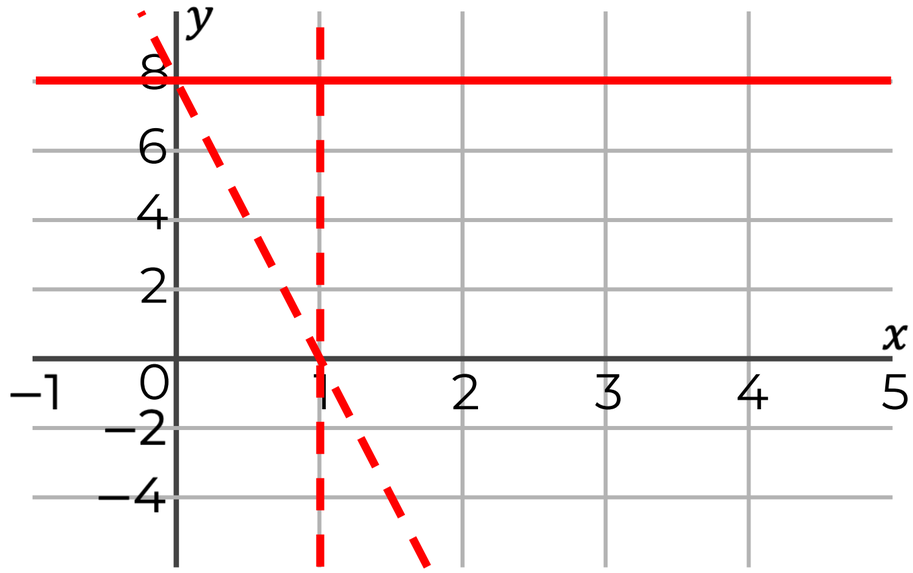

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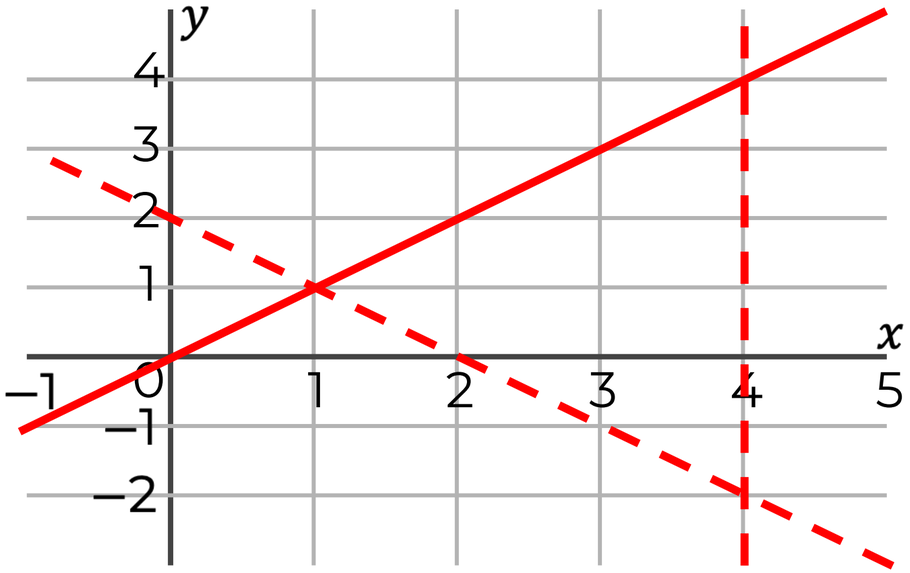

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