Inequalities and regions: the boundary line

Exit ticket ANSWERS Name _____

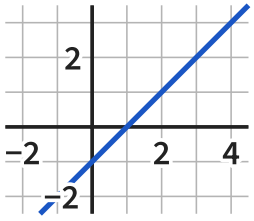
1. Is the boundary line of $x > -2$ dashed or solid? Is it vertical or horizontal?

Dashed; vertical

2. Complete the table of values for $y = 3 - 2x$ when $x = -1$, 0, 1 and 2.

5, 3, 1, −1

3. Draw the boundary line of $y \geq x - 1$ on the grid.



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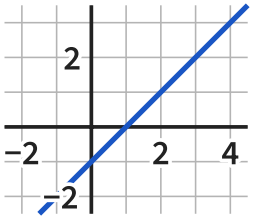

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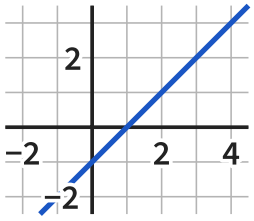

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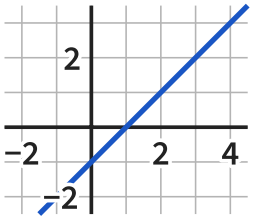

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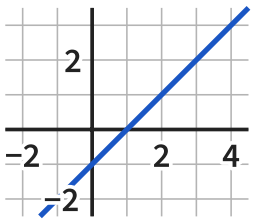

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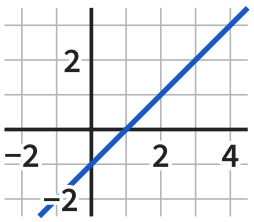


Exit ticket Inequalities and regions: the boundary line

NEXT LESSON

1 **Is the boundary line of $x > -2$ dashed or solid? Is it vertical or horizontal?**

Dashed; vertical

TESTS Dashed or solid, and which way a line parallel to an axis goes

LOOK FOR *solid* > does not include the line, so it is dashed

horizontal every point on $x = -2$ has $x = -2$: it goes up and down

FIX IT

Is the boundary line of $y \leq 4$ dashed or solid? Is it vertical or horizontal?

Solid; horizontal

2 **Complete the table of values for $y = 3 - 2x$ when $x = -1, 0, 1$ and 2.**

5, 3, 1, −1

TESTS Substituting into the line, with a negative x

LOOK FOR *1 when X = −1* $-2 \times (-1) = +2$, so $3 + 2 = 5$

1, 3, 5, ? read as $y = 3 + 2x$: the minus belongs to $2x$

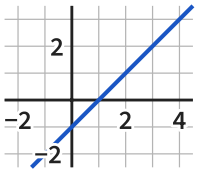
FIX IT

Complete the table of values for $y = 2x - 3$ when $x = -1, 0, 1$ and 2.

−5, −3, −1, 1

3 **Draw the boundary line of $y \geq x - 1$ on the grid.**

solid, through (0, −1) and (1, 0)



TESTS Drawing a sloping boundary line from a table

LOOK FOR *a dashed line* ≥ includes the line, so it is solid

through (0, 1) the − 1 read as + 1: when $x = 0$, $y = -1$

FIX IT

Is the boundary line of $y < 2x + 1$ dashed or solid? Where does it cross the y axis?

Dashed; at (0, 1)