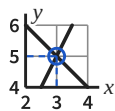


Simultaneous equations: solving with graphs

Exit ticket **ANSWERS** Name _____

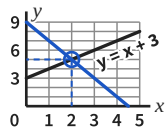
- 1 Write down the solution of $y = 2x - 1$ and $y = 8 - x$.

$x = 3, y = 5$



- 2 The line $y = x + 3$ is drawn. Draw $2x + y = 9$ and solve the pair.

$x = 2, y = 5$



- 3 Which is the best estimate of the solution of $y = 2x + 1$ and $x + y = 5$?

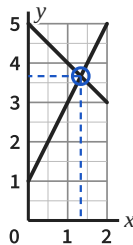
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B

Solve $y = 2x + 1$ and $y = 3 - 2x$ by algebra.

$x = \frac{1}{2}, y = 2$



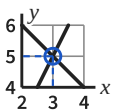
The Maths Habit

Simultaneous equations: solving with graphs

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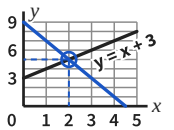
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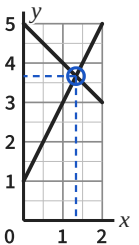
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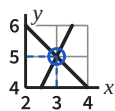
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Simultaneous equations: solving with graphs

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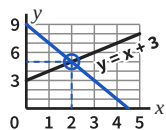
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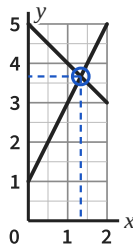
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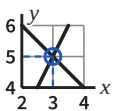
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Simultaneous equations: solving with graphs

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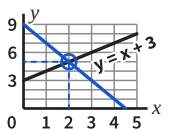
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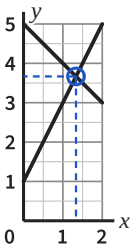
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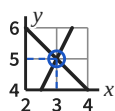
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Simultaneous equations: solving with graphs

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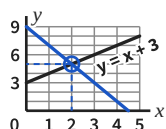
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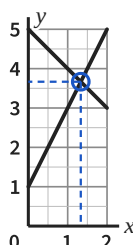
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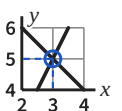
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Simultaneous equations: solving with graphs

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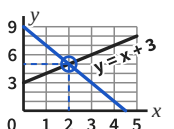
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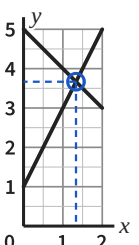
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The Maths Habit

Exit ticket Simultaneous equations: solving with graphs

NEXT LESSON

- 1 Write down the solution of $y = 2x - 1$ and $y = 8 - x$.

$x = 3, y = 5$

TESTS

The solution is where the lines cross, x first

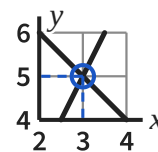
LOOK FOR

$x = 5, y = 3$ read the coordinates in the wrong order

FIX IT

The lines $y = x - 3$ and $y = 7 - x$ cross at $(5, 2)$.
Write down the solution.

$x = 5, y = 2$



- 2 The line $y = x + 3$ is drawn. Draw $2x + y = 9$ and solve the pair.

$x = 2, y = 5$

TESTS

Drawing a line from its equation, then reading the crossing

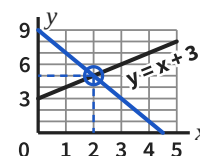
LOOK FOR

$x = 3, y = 6$ drew $2x + y = 9$ through $(9, 0)$: it meets the x axis at 4.5

FIX IT

Where does $3x + y = 9$ cross each axis? Then solve it with $y = x + 1$.

$(0, 9), (3, 0); x = 2, y = 3$



- 3 Which is the best estimate of the solution of $y = 2x + 1$ and $x + y = 5$?

A $x = 1, y = 4$ B $x = 1.3, y = 3.7$

C $x = 3.7, y = 1.3$ D $x = 1.5, y = 3$ B

Solve $y = 2x + 1$ and $y = 3 - 2x$ by algebra.

$x = \frac{1}{2}, y = 2$

TESTS

Estimating from a graph; solving exactly by algebra

LOOK FOR

$x = 2, y = 5$ $4x = 2$ divided the wrong way round
(a) C swapped x and y in the estimate

FIX IT

Solve $y = 3x - 1$ and $y = 2 - 3x$ by algebra.

$x = \frac{1}{2}, y = \frac{1}{2}$

