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Algebra / Solving a linear equation by graphing

Solving a linear equation by graphing

Here is an equation.

$$2x - 5 = 1$$

Draw a graph to help solve the equation. Then find the solution to the equation.



$2x - 5 = 1$
 $-5 \quad -5$
 $2x - 6 = 0$
 $mx + b = y$
when $y = 0$
what is x ?

Solution: $x = 3$

$2x - 5 = 1$
 $+5 \quad +5$
 $2x = 6$
 $\frac{2x}{2} = \frac{6}{2}$
 $x = 3$

Note: The Solve feature is not available to students.

Explanation Try Another Check Solve

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Solving a linear equation by graphing

Here is an equation.

$$-7 = 2 - 3x$$

Draw a graph to help solve the equation. Then find the solution to the equation.



$-7 = 2 - 3x$
 $+7 \quad +7$
 $0 = 9 - 3x$
 $y = b + mx$
when $y = 0$
what is x ?

Solution: $x = 3$

Note: The Solve feature is not available to students.

Explanation Try Another Check Solve

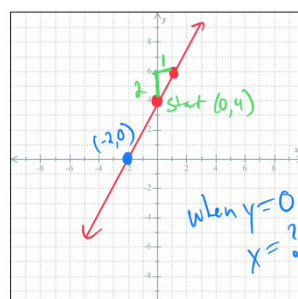
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Solving a linear equation by graphing

Here is an equation.

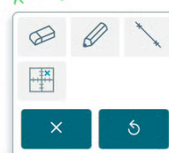
$$0 = 2x + 4$$

Draw a graph to help solve the equation. Then find the solution to the equation.



$$y = mx + b$$

$y = 0$
 $m = 2$ $\frac{2}{1}$ $\frac{\text{up } 2}{\text{right } 1}$
 $b = 4$ $\text{start here } (0, 4)$
 $x = ?$



Solution: $x = -2$

$$y = mx + b$$

$m = \text{slope}$ $\frac{\text{rise}}{\text{run}}$ $\frac{+ \text{ up / down}}{\text{right}}$

$b = y\text{-intercept}$ starting point
 $x = 0$ at $y\text{-intercept}$

(x, y) any point on the line

#Lines

#LinesAndFunctions

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