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Algebra /

Solving a system of linear equations using elimination with multiplication...

Solving a system of linear equations using elimination with multiplication and addition

Solve the following system of equations.

$$\begin{cases} -3x + 7y = -1 \\ 4x + 5y = -13 \end{cases}$$

$x = \boxed{-2}$
 $y = \boxed{-1}$

Once you get one the answer for one variable, plug it in to find the other

$y = -1$
 $-3x + 7(-1) = -1$
 $-3x - 7 = -1$
 $-3x = 6$
 $x = -2$

$4(-3x + 7y = -1)$
 $3(4x + 5y = -13)$
 $-12x + 28y = -4$
 $+ 12x + 15y = -39$
 $43y = -43$
 $y = -1$

$(-2, -1)$
 Point of Intersection

Note: The Solve feature is not available to students.

Solving a system of linear equations using elimination with multiplication and addition

Solve the following system of equations.

$$\begin{cases} 9x - 8y = 9 \\ 8x + 5y = -4 \end{cases}$$

$x = \boxed{1}$
 $y = \boxed{0}$

$5(9x - 8y = 9)$
 $8(8x + 5y = -4)$
 $45x - 40y = 45$
 $+ -32x + 40y = -32$
 $13x = 13$
 $x = 1$

$9(1) - 8y = 9$
 $9 - 8y = 9$
 $-8y = 0$
 $y = 0$

$(1, 0)$

#SystemsOfLinearEquations

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