DO NOW

Solve the system of equations - Choose any algebraic method

$3y - 2x = 18$] 3
$5y + 3x = 11$] 2

$9y - 6x = 54$
$10y + 6x = 22$
$19y = 76$
$y = 4$

$3y - 2x = 18$
$3(4) - 2x = 18$
$12 - 2x = 18$
$-12 \quad -12$
$-2x = 6$
$x = -3$

$(-3, 4)$

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Homework Answers

1. (1, 1)
2. Infinite # of Solutions
3. (2, -3)
4. (5, -4)
5. (0, -3)

Jan 23-9:19 AM

Word Problems Using Systems of Equations

Use two different variables to represent the unknowns in the problem. (Write "let" statements!)

Write a system of equations using your variables 2 equations

Solve the system and CHECK

Make sure you answer the question!

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The sum of two numbers is 58. Their difference is 32. Find the numbers.

Let x = 1st number
y = 2nd number

$x + y = 58$
$+ \; x - y = 32$
$2x = 90$
$\frac{2x}{2} = \frac{90}{2}$
$x = 45$

$x + y = 58$
$45 + y = 58$
$-45 \quad -45$
$y = 13$

45 - 1st number
13 - 2nd number

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The sum of two numbers is 5. The larger number is 7 more than the smaller number. Find the numbers.

Let x = Larger #
y = Smaller #

$x + y = 5$
$x = 7 + y$

$7 + y + y = 5$
$7 + 2y = 5$
$-7 \quad -7$
$\frac{2y}{2} = \frac{-2}{2}$
$y = -1$

$x + y = 5$
$x + (-1) = 5$
$+1 \quad +1$
$x = 6$

6 - larger #
-1 - Smaller #

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