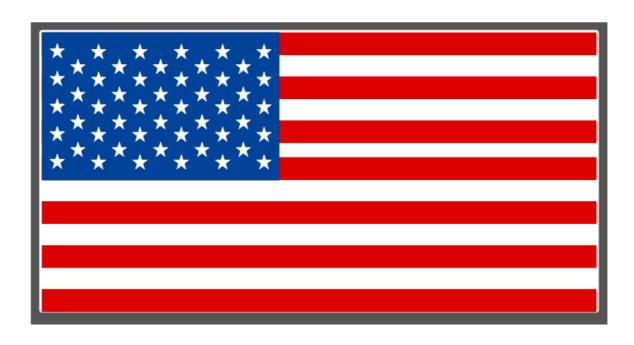
Simplify the following write your positive exponents.

1. $\frac{16x^7}{12x^{-2}}$

Solve the following equations, showing your work!

- 2.2x + 2 = 2x + 1
- 3.4x 2 = 8x + 8
- 4. 26 + 2(x + 1) = 4x 2(x + 9)
- 5.6x + 2 + 9x = 2x + 10

Nov 4-1:27 PM



Word Problem WKS 2

Completion Points

5 points: 10 problems 4 points: 8-9 problems 3 points: 6-7 problems 2 points: 4-5 problems 1 point: 2-3 problems 0 points: 0-1 problems



Score = Completion + Accuracy

Accuracy Points



Sep 17-9:03 AM

Day 14: Solutions to Equations

Objectives:

I can tell how many solutions an equation has.

3k - 2 = 16

+2 +2

3k = 18

+3 +3

k=6

How many solutions for x do the following equations have?

3x + 2 = 2x - 10

One solution, becam

X equals something.

Try to create an equation where any number would make the

statement true. (infinite number of solutions)

Nov 5-1:51 PM

Equations with infinite solutions

Examples

4x + 2 = 4x + 29x + 1 = 3x + 6x + 1

$$8x + 2 = 8x + 2$$

$$4x = 4x$$

$$5x + 2 = 1$$

$$5x + 1 = 3x + 4$$

$$x + 2 = x + 1$$

$$2x + 3x - 5 = 5x + 1$$

$$2x - 3 = 2x$$

What are characteristics of an equation that has infinite

- If we combine all like terms, have the same expressions with the same constant & coefficient.

- both sides of the to

- the same #ron both sides equation simplify

- variables are equal

Vocab

Infinite Solutions: Equations that are true regardless of the value of the variable have infinite solutions.

Example:
$$x + 3 = x + 3$$

-x -x $3 = 3$ Infinite Solutions!

Hint

After eliminating the variables, is the statement true? If yes, it has infinite solutions.

Nov 5-2:03 PM

Solve each of the following.

1)
$$2x + 8 = 2x + 8$$
 infinitely many solutions

2)
$$4x + 9 = 2x - 2(x + 10)$$
 ×=-7.25

3)
$$2x - 3 = 8x - 3(2x + 1)$$
 infinitely many solutions

4)
$$5x + 5 = 5x + 5$$
 infinitely many solutions

5)
$$4x + 3 = 4x - 3$$

 $-4x - 3 - 3$ No Solution

1.3 p. 21B (10-19)

Nov 5-4:37 PM