

Equations



$4x + 7 - 8x = 56$

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Simplify Left Side of Eq.

$-4x + 7 = 56$

$-4x = 49$

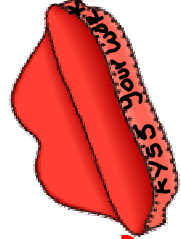
$x = -\frac{49}{4}$

"X equals to negative 49 over 4."

One Solution.



"K Y S S: Keep Your Steps Straight"



Absolute Value
{2 possible solutions}

$ x = 5$ $x = 5$ or $x = -5$	$ x = 0$ $x = 0$	$ x = -3$ \emptyset
1 solution	1 solution	No Solution

$|2x - 5| = 11$

$2x - 5 = 11$ or $2x - 5 = -11$

$2x = 16$ or $2x = -6$

$x = 8$ or $x = -3$

Inequalities



$3x + 2 > 11 - 5x$

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Combine like terms, from opposite sides of inequality.

$2 > 11 - 8x$

"switch symbol when Mult. or Divide Both sides By Negative with Inequ. s"

$\frac{9}{8} < x$

"nine-eighths is less than the solutions of x"

Same As: $x > \frac{9}{8}$

Inequalities have infinite real number solutions which can be expressed on a line graph as follows.