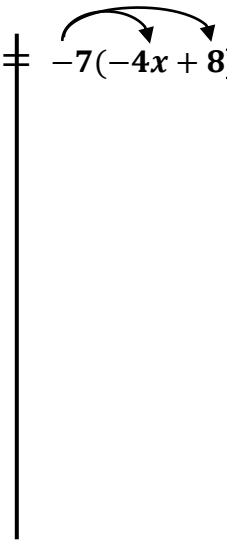
Name: _____ Date: _____Period: __

Solve the following equations.

Steps

1) $40 + 4x = -7(-4x + 8)$



a. Identify the two sides of your equation by drawing a line across the equal sign.

b. Get rid of parentheses by distributing.

c. Decide which side you want all your variables to be on.

d. Add or subtract on both sides to move your variables to the side you picked in c.

e. Add or subtract to move your constants to the other side.

f. Solve for x.

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2) $-15x + 21 + 5x = 41$

a. Identify the two sides of your equation.

b. Combine only like-terms that are on the same side of the equal sign.

c. This turns into a simple two-step equation.

d. Solve for x.

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3) $x + 21 = -2(-2 - 3x) - 3$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

Name: _____ Date: _____Period: ___

4) $5(4-x)+3x = 32+2x$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

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5) $-7x+2(-x+5) = 20-7x$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

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6) $-13-4x = 5(7-2x)$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Decide which side you want all your variables to be on.

d. Move your variables to the side you picked in c.

e. Move your constants to the other side.

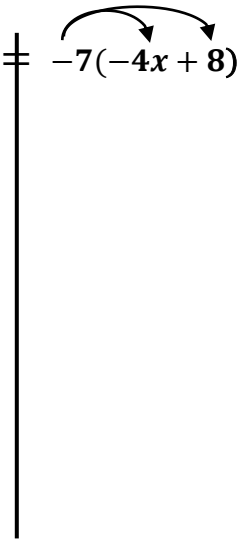
f. Solve for x.

Name: _____ Date: _____Period: __

Solve the following equations.

Steps

1) $40 + 4x = -7(-4x + 8)$



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2) $-15x + 21 + 5x = 41$

---

3) $x + 21 = -2(-2 - 3x) - 3$

Name: _____ Date: _____Period: __

4) $5(4-x)+3x = 32+2x$

Steps

---

5) $-7x+2(-x+5) = 20-7x$

---

6) $-13-4x = 5(7-2x)$

Name: _____ Date: _____ Period: ___

Solve the following equations.

Steps

a. Identify the two sides of your equation by drawing a line across the equal sign.

b. Get rid of parentheses by distributing.

c. Decide which side you want all your variables to be on.

d. Add or subtract on both sides to move your variables to the side you picked in c.

e. Add or subtract to move your constants to the other side.

f. Solve for x.

1) $40 + 4x = -7(-4x + 8)$

$40 + 4x = 28x - 56$

$-4x \quad -4x$

$40 = 24x - 56$

$+56 \quad +56$

$\frac{96}{24} = \frac{24x}{24}$

$4 = x$

---

2) $-15x + 21 + 5x = 41$

$-10x + 21 = 41$

$-21 \quad -21$

$\frac{-10x}{-10} = \frac{20}{-10}$

$x = -2$

a. Identify the two sides of your equation.

b. Combine only like-terms that are on the same side of the equal sign.

c. This turns into a simple two-step equation.

d. Solve for x.

---

3) $x + 21 = -2(-2 - 3x) - 3$

$x + 21 = 4 + 6x - 3$

$x + 21 = 6x + 1$

$-x \quad -x$

$21 = 5x + 1$

$-1 \quad -1$

$\frac{20}{5} = \frac{5x}{5}$

$4 = x$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

Name: _____ Date: _____ Period: ___

4) $5(4-x)+3x = 32+2x$

$20-5x+3x = 32+2x$

$20-2x = 32+2x$

$-2x \quad = \quad -2x$

$20-4x \quad 32$

$-20 \quad -20$

$\frac{-4x}{-4} = \frac{12}{-4}$

$x = -3$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

---

5) $-7x+2(-x+5) = 20-7x$

$-7x-2x+10 = 20-7x$

$-9x+10 = 20-7x$

$+7x \quad +7x$

$-2x+10 = 20$

$-10 \quad -10$

$\frac{-2x}{-2} = \frac{10}{-2}$

$x = -5$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Combine only like-terms that are on the same side of the equal sign.

d. Decide which side you want all your variables to be on.

e. Move your variables to the side you picked in d.

f. Move your constants to the other side.

g. Solve for x.

---

6) $-13-4x = 5(7-2x)$

$-13-4x = 35-10x$

$+10x \quad +10x$

$-13+6x = 35$

$+13 \quad 13$

$\frac{6x}{6} = \frac{48}{6}$

$x = 8$

a. Identify the two sides of your equation.

b. Get rid of parentheses by distributing.

c. Decide which side you want all your variables to be on.

d. Move your variables to the side you picked in d.

e. Move your constants to the other side.

f. Solve for x.