$$2x+3=13$$
$$-3 \quad -3$$

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

$$x=5$$

1. Isolate the variable

2. Add/subtract

3. Divide/Multiply

$$2(5)+3$$
$$10+3$$
$$13 \checkmark$$

$$\frac{1}{4}x - 2 = -5$$

$$+2 \quad +2$$

$$\left(\frac{4}{1}\right)\frac{1}{4}x = -3\left(\frac{4}{1}\right)$$

$$x = -12$$

1. Isolate the variable
2. Add/subtract
3. Multiply/Divide

$$7x - 3x - 8 = 24$$

$$4x - 8 = 24$$

$$+8 \quad +8$$

$$\frac{4x}{4} = \frac{32}{4}$$

$$x = 8$$

1. combine like Terms
2. Isolate variable
3. add/subtract
4. divde/Multiply

$$2x - 9x + 17 = -4$$

$$2x - 9x$$

$$-7x \quad -7x + 17 = -4$$

$$\underline{-17} \qquad \underline{-17}$$

$$-7x = -21$$

$$\frac{-7x}{-7} = \frac{-21}{-7}$$

$$x = 3$$

$$5x + 3(x+4) = 28$$

$$5x + 3x + 12 = 28$$

$$8x + 12 = 28$$

$$-12 \quad -12$$

$$\frac{8x}{8} = \frac{16}{8}$$

$$x = 2$$

1. Isolate variable
2. Distribute
3. Combine like terms
4. add/subtract
5. Multiply/Divide

$$4x(-3)(x-2)=21$$

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

$$x+6=21$$

$$-6\quad -6$$

$$x=15$$

Isolate variable

1. Distribute

2. Combine like Terms

3. Add/subtract

$12 = 4(x+5)$

Isolate variable

1. combine like terms

2.

$12 = 4x + 20$

$-20 \quad -20$

$-8 = 4x$

$\frac{-8}{4} = \frac{4x}{4}$

$-2 = x$

$x = -2$

$12 = 4(x+5)$

$12 = 4y$

$\frac{12}{4} = \frac{4(x+5)}{4}$

$3 = x+5$

$-5 \quad -5$

$-2 = x$

$$\left(\frac{-5}{6}\right)-66 = \left(\frac{-5}{6}\right)\frac{6}{5}(x+3)$$

$$-5 \cdot 11 = x+3$$

$$-55 = x+3$$

$$-3 \quad -3$$

$$-58 = x$$