

Warm-up

$$1) \quad p + 2p - 3 = 9$$

$$3p - 3 = 9$$

$$+3 \quad +3$$

$$\frac{2}{3}p = \frac{12}{3}$$

$$p = 4$$

$$2) \quad 4x - 7(x - 2) = 36$$

$$4x - 7x + 14 = 36$$

$$-3x + 14 = 36$$

$$-3x = 22$$

$$x = -\frac{22}{3}$$

3.4 Variables on both Sides!

$$\begin{array}{cccc} c & & v & & v & & c \\ 7 & - & 8x & = & 4x & - & 17 \\ & & + 8x & \Delta & + 8x & & \end{array}$$

$$\begin{array}{cccc} & & v & & c \\ 7 & = & 12x & - & 17 \\ + 17 & & \Delta & & + 17 \end{array}$$

$$24 = 12x$$

$$\frac{12x}{12} = \frac{24}{12}$$

$$x = 2$$

1st - Get the Variable on one Side

2nd - Get constant on the other.

3rd - Get x by itself

Homework

$$\textcircled{1} \quad 24 - 3m = 5m \quad \textcircled{2} \quad 20 + c = 4c - 7$$

$$\textcircled{3} \quad 9 - 3k = 17 - 2k \quad \textcircled{4} \quad 5z - 2 = 2(3z - 4)$$

$$\textcircled{5} \quad 10b + 18 = 8b + 4 \quad \textcircled{6} \quad 19 - 13p = -17p - 5$$

$$\textcircled{7} \quad 5h - 7 = 2(h + 1) \quad \textcircled{8} \quad d + 26 = \frac{1}{3}(18 - 12d)$$