

4-3
Lesson ~~4-3~~ → Solving Equations
with variables
on ONE side

Rules

1. Combine like terms with sign "to the left" in control

$$2x - 4 + x = 11$$

$$3x - 4 = 11$$

2. Whatever you do to one side of the equation, you must do the same to the other side

$$3x - 4 = 11$$

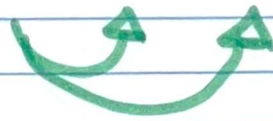
$$+4 \quad +4$$

$$\frac{3x}{3} = \frac{15}{3}$$

$$x = 5$$

3. A negative outside a parenthesis changes the sign of both terms in the parenthesis

$$(-2x + 3) - (x - 2) = 29$$



$$\underline{-2x + 3} - \underline{x + 2} = 29$$

$$-3x + \underline{3} + \underline{2} = 29$$

$$-3x + 5 = 29$$

$$\underline{-5} \quad \underline{-5}$$

$$-3x = 24$$

$$\underline{-3} \quad \underline{-3}$$

$$x = -8$$