

1/18/20

Distributive Property

Use to simplify algebraic expressions by using the distributive property and combining like terms.

EX $(10x + 3y) + (4x - y) - 5x$

$$5x + 2y$$

* not the same variable, so they cannot be combined

Distributive Property

$$4(x + 2) \rightarrow \begin{array}{l} x + 2 \\ x + 2 \\ x + 2 \\ x + 2 \end{array} \rightarrow 4x + 8$$

simplified method:

$$4(x + 2) \rightarrow 4x + 8$$

When a number is on the outside of the parenthesis, we multiply it by everything inside.

EX $6(-2x + 4) - 8$

$$-12x + 24 - 8$$
$$-12x + 16$$