

# Distributive Property

When a number or variable is written directly in front of a set of parentheses, it must be multiplied by EVERYTHING inside the parentheses.

Example:

$$2(3x - 7) =$$

If there is no number or variable written directly in front of a set of parentheses, a 1 should be drawn in front. The 1 will be positive or negative according to the sign before it.

Example:

$$5 - (4x + 2)$$

<b>Expression</b>	<b>What should be distributed?</b>	<b>Distribute</b>	<b>Combine Like Terms</b>	<b>Final Answer</b>
$-2(x - 3)$				
$5(x - 4) + 2x - 3$				
$3 + 2(x-5)$				
$2 - (-x + 5)$				
$4(x+1) - 5$				
$2 - (x - 9)$				
$3 - 2(x + 1) + (5x - 4)$				
$-(x - x^2) - 2(5 - x) + 7$				
$-3x(x - 4) + 2 - (5 - x)$				
$-(x^2 - 3x + 2) - x(x - 4)$				