

Like terms w/ Distributive Property

Steps

① ALWAYS Distribute FIRST

② Simplify by Combining Like terms & Constants

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Examples

① $3(x+4) - 5x$

$$\boxed{3x} + 12 - \boxed{5x}$$

$$\boxed{-2x + 12}$$

② $3(x+4) - 5(x+2)$

$$\boxed{3x} + 12 - \boxed{5x} - 10$$

$$\boxed{-2x + 2}$$

③ $-2(3x-5) - 1(4x+2)$

$$\boxed{-6x} + 10 - \boxed{4x} - 2$$

$$\boxed{-10x + 8}$$

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Practice:

$$\textcircled{1} \quad 2(2x+1) - 2(3x+1)$$

$$4x + 2 - 6x - 2$$

$$-2x + 0$$

$$-2x$$

$$\textcircled{2} \quad -3(x-4) - 1(2x-7) + 5x$$

$$-3x + 12 - 2x + 7 + 5x$$

$$-3x - 2x$$

$$-5x + 5x$$

$$0$$

$$19$$

Jan 7-2:40 PM