

Lesson 6-2 → Combining Like Terms with Parentheses

When expressions in parentheses are being **ADDED**, just drop parentheses

$$(6x - 3y) + (2x + y)$$

$$6x - 3y + 2x + y$$

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$$6x + 2x$$

$$-3y + y$$

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$$8x$$

$$-2y$$

$$8x - 2y$$

When expressions in parentheses are being **SUBTRACTED**, it is difficult

You have to subtract **BOTH** terms

You have to **CHANGE** both terms **SIGNS**

$$(8x - 4y) - (2x + y)$$



$$8x - 4y - 2x - y$$



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$$8x - 2x$$



$$6x$$

$$-4y - y$$



$$-5y$$

$$6x - 5y$$

Don't forget! Subtracting a Negative is the same as adding a positive

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



$$3x + y - 5x + 4y$$

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$$3x - 5x$$

$$+y + 4y$$



$$-2x$$

$$+5y$$

$$\textcircled{-2x + 5y}$$