

Math 2

Toolkits  
&  
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### +/- Combining Like Terms

**LIKE TERMS:**

Same Variable  
Same exponent  
Order doesn't matter

$$\underline{-2x} + \underline{3} - \underline{4x} + \underline{5} - \underline{4x^2} + \underline{11} - \underline{15x} + \underline{2x^2} - \underline{15}$$

$$-21x + 4 - 2x^2$$

$$-2x^2 - 21x + 4$$

$$\textcircled{x} + \textcircled{2x} - \textcircled{9} + \textcircled{xy} - \textcircled{2} - \textcircled{3x} + \textcircled{2xy} - \textcircled{4} - \textcircled{3yx}$$

$$0x - 15 + 0xy$$

$$-15$$

$$\underline{4x} + \underline{yz} - \underline{3} + \underline{2x} + \underline{4xyz} - \underline{1x} + \underline{8} + \underline{2zy} - \underline{9}$$

$$5x + 3yz - 4 + 4xyz$$

## Distributive Property

$$A(B + C) = AB + AC$$

$$A(B - C) = AB - AC$$

$$A + 1(B + C) = A + B + C$$

$$A - 1(B + C) = A - B - C$$

$$A + 1(B - C) = A + B - C$$

$$A - 1(B - C) = A - B + C$$

Expression	What number(s) should be distributed?	Distribute	Combine Like Terms	Final Answer
$-2(x-3)$	$-2$	$-2(x) - 2(-3)$	$-2x + 6$	$-2x + 6$
$5(x-4) + 2x - 3$	$5$	$5(x) + 5(-4) + 2x - 3$	$5x - 20 + 2x - 3$	$7x - 23$
$3 + 2(x-5)$	$2$	$3 + 2(x) + 2(-5)$	$3 + 2x - 10$	$2x - 7$
$2 - (x+5)$	$-1$	$2 + -1(x) + -1(5)$	$2 + x + 5$	$x + 7$
$4(x+1) - 5$				
$2 - (x-9)$	$-1$	$2 + -1(x) + -1(-9)$	$2 - x + 9$	$-x + 11$
$3 - 2(x+1) + (5x-4)$				
$-(x-x^2) - 2(5-x) + 7$				
$-3(x+4) - 2(5-x)$				
$-(x^2 - 3x + 2) - x(x-4)$				

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