

Name _____

Date _____

Mr. Tallman

Do Now

1) Circle the terms that are like terms.

$4n$ $-9n$ $6a$ $14n$ $5n^2$ 7 $\frac{1}{2}n$

2) Simplify the following expressions:

a) $5x + x - 3$ | b) $-9x + 12 + x - 7$ | c) $-3(x - 8)$ | d) $3x + 8(x - 5) + 4$

Lesson #46 - Adding Algebraic Expressions

The same rules that we learned for adding integers and rational numbers apply to adding algebraic expressions.

Example 1) Find the sum of $2x + 1$ and $5x$

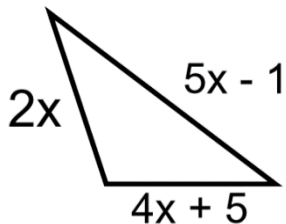
Example 2) Find the sum of $-3a + 2$ and $5a - 3$

Now, You Try!

3) Find the sum of $10x + 5$ and $3x - 1$

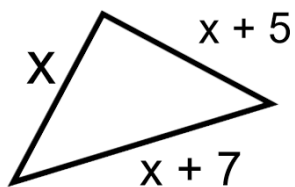
4) Find the sum: $(-2y - 3) + (y - 5)$

Example 4) Write an expression to find the perimeter of the triangle below. Simplify the expression completely.



Now, You Try!

5) Write an expression to find the perimeter of the triangle below. Simplify the expression completely.



On Your Own!

6) Find the sum of $7x + 8$ and $3x + 12$	7) Find the sum: $(6a - 3b + 4) + (7a - 6)$
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Simplify the following.

8) $-2a + 8b - 6a + 3b$	9) $-14x + 9y - 6x$	10) $-(4x - 9)$
11) $9x - 3(2x + 8)$	12) $(-3x^2 + 11) + (x^2 - 10)$	13) $6a + 5 + 7(a - 1)$

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