

Name _____

Date _____

Mr. Tallman

Do Now

Write the opposite of each integer.

1) 10 _____

2) -7 _____

Find the difference.

3) $19 - (-12)$

4) $-16 - 20$

Write the opposite of each expression.

5) $12x - 5$ _____

6) $-3y - 4x + 3$ _____

Lesson #53 - Adding and Subtracting Expressions

Use the subtraction rule to find equivalent expressions.

To subtract one expression from another, use the subtraction rule ADD THE OPPOSITE.

Example 1) Find the sum of $6c - 4$ and $2c - 3$

Example 2) Find the difference of $-3n - 7$ and $n + 4$.

Now, You Try!

3) Find the difference. $(13w + 2) - (11 + 5w)$

4) Find the sum. $2g + 9h - 5$ and $6g + 2$

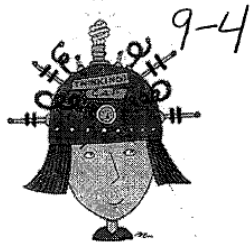
On Your Own. Add or Subtract the following.

5) $(3x^2 - x - 2) + (x^2 + 2x - 1)$

6) $x - (3x - 4)$

7) Subtract $2x$ from $7x$

THINK ABOUT IT!
How would you write
4 subtracted from 9?



8) $(5a + 3) - (5a - 3)$

9) $2x + (3x + 5)$

10) Subtract $4x + 6$ from $2x + 9$

11) $(4x - 3) - (7x - 8)$

12) $9x + (11x + 6)$

13) Find the measure of the perimeter of a triangle whose sides measure $3x + 5$, $2x + 9$, and $5x + y$.

14) Simplify the following expressions.

A) $2a + 5b - 4a + 3b$

B) $-10x + 5y - 9x$

C) $3x^2 + x^2$

D) $5(3x^2 + 2x - 6)$

E) $-(2x + 8)$

F) Subtract 3 from 11