

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 #47 - Subtracting Expressions

Use the subtraction rule to find equivalent expressions.

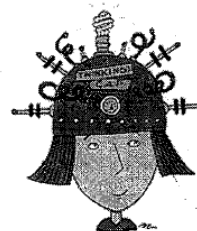
To subtract one expression from another, use the subtraction rule ADD THE OPPOSITE.

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

Example 2) Find the difference when $-3n - 7$ is subtracted from $n + 4$.

THINK ABOUT IT!

How would you write
4 subtracted from 9?



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 $7x$

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

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

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

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

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

Review

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