Name: _____ HW# 23

Simplify each expression.

1. $-(4x + 2)$

$-4x - 2$

2. $5x - (2x - 4)$

$5x - 2x + 4$

$3x + 4$

3. $8 - (6y + 2)$

$8 - 6y - 2$

$-6y + 6$

4. $0.5x + 2.1 - (3.5x + 1.4)$

$0.5x + 2.1 - 3.5x - 1.4$

$-3.0x + 0.7$

5. What is $8x + 2$ subtracted from $3x - 5$?

$1(3x - 5) - 1(8x + 2)$

$3x - 5 - 8x - 2$

$-5x - 7$

6. What is the difference of $-7x + 3$ and $2x - 4$?

$1(-7x + 3) - 1(2x - 4)$

$-7x + 3 - 2x + 4$

$-9x + 7$

7. What is $(4x^2 - 5x + 3)$ subtracted from $(2x^2 - 4)$?

$1(2x^2 - 4) - 1(4x^2 - 5x + 3)$

$2x^2 - 4 - 4x^2 + 5x - 3$

$-2x^2 + 5x - 7$

8. ABC Amusement park charges \$8 to enter and \$3 per ride, r, that you go on.

   a. Write an expression to represent the cost of going to ABC Amusement park. $3r + 8$ dollars

XYZ Amusement park charges \$12 to enter and \$4 per ride, r, that you go on. Write a simplified

   b. Write an expression to represent the cost of going to XYZ Amusement park. $4r + 12$ dollars

   c. Write a simplified expression to show how much more XYZ Amusement park charges than ABC Amusement park.

$(4r + 12) - (3r + 8)$

$4r + 12 - 3r - 8$

$1r + 4$ dollars