**Expressions Mini-Quiz Review Sheet**

Write the expression to represent the word phrases:

A) The product of 9 and x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B) The difference of 7 and x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C) 8 less than the quotient of x and 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D) Double the sum of 8 and x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The length of a rectangle is 27 units. The width of the rectangle is w units. Write the expression representing the area and perimeter of the rectangle.

 A) Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ square units

 B) Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ units

Evaluate the following expressions for x = -4 and y = 5.

 A) 2 – x + 8y

 B) 4(x – y) + x

 C) 3y2 – x + (8 + x)2

Simplify the expressions.

 A) 2x + 4x – 8 – 10x + 2

 B) 3x2 + 7x – 5x2 + (-6)

 C) 9(3x – 4) + 4x

Find the value of x for the following equations.

1. 12(x – 3) = -48 – 36

B) -5(4n – 2) = -20n + x