

Name _____ Period _____

Chapter 3 Practice Test

Section 1: Evaluating Algebraic Expressions

1) Evaluate the following expression if $x = 5$ and $y = 4$:

$$3x - 2y + y^2$$

2) Evaluate the following expression if $a = -3$, $b = 9$, and $c = 15$:

$$\frac{(b+c)-a}{c-4a}$$

3) Evaluate the following expression if $p = 6$ and $q = -3$:

$$p^2 + 20q - 13$$

Section 2: Simplifying Expressions

Simplify each of the following expressions:

4) $7f + 9f - 8$

5) $-8 - 7f - 2 + f$

6) $16n + (-4) - 16n + 42 - 3$

Section 3: Distributive Property

Simplify each of the following expressions using the Distributive Property:

7) $9(-x + 11)$

8) $-3(-5y - 2x)$

9) $\frac{2}{3}(10x + 18)$

Section 4: Factoring

Factor each of the following expressions completely:

10) $33g + 44$

11) $-15abc + 35ac$

12) $14w - wy + 21wx$

Section 5: Adding and Subtracting Linear Expressions

Simplify the following expressions:

13) $5(2x - 3) + 4(-3x + 5)$

14) $(x - 11) - (6x - 2)$

15) $\frac{3}{4}(20x + 12) - 2(x - 5)$

Section 6: Combining Concepts

Simplify the following expression:

$$4(-5x + 25) - 6x - 9$$

Simplify the following expression and then evaluate the expression given that $x = -4$:

$$2(x - 1) + 5x - x + 7 + 3x$$

SECTION 1: _____/3

SECTION 2: _____/3

SECTION 3: _____/3

SECTION 4: _____/3

SECTION 5: _____/3

SECTION 6: _____/2

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