

Name: _____

Unit 1: Algebra Basics

Date: _____ Bell: _____

Homework 5: Evaluating Expressions

**Directions:** Evaluate each expression for the given variable values.

1. $n^2 - 3n + 8$

if $n = 4$

2. $\frac{x^2 - 4y}{2}$

if $x = 4$ and $y = -3$

3. $4|m - n|$

if $m = -7$ and $n = 2$

4. $19 - x^2$

if $x = -5$

5. $s^2t - 10$

if $s = -8$ and $t = \frac{3}{4}$

6. $4p^2 + 7q^3$

if $p = -3$ and $q = -2$

7. $\frac{(a+b)^5}{a-2b^2}$

if $a = 6$ and $b = -8$

8. $\frac{5c^2 - d^2 + 3}{2c - 4d}$

if $c = -1$ and $d = -4$

9. $-q^2 - r^2 + 3s$

if $q = 9$, $r = -6$, $s = -20$

10. $3|x + y|^2 - (xy)^2$

if $x = 3$ and $y = -5$

11. $2x^2 - 5xy - y^3$

if $x = -3$ and $y = -2$

12. $-a^2 + 7b^4 - 2c^3$

if $a = -4$, $b = -2$, $c = -3$