

Name _____ Period _____ Date _____

Algebra 2

Evaluating/Simplifying Expressions

To receive full credit, YOU MUST SHOW ALL YOUR WORK. (No work, no credit)

A	B	Answer
1) Evaluate: $8 + 6(3 - 8)^2$	1) Evaluate: $3(4^2 - 3^3)^2 - 2 \cdot 100 - 5$	
2) Evaluate: $92 - 45 \div (3 \cdot 5) - 5^2$	2) Evaluate: $2^3 \cdot (-2)^4 \div 2$	
3) Evaluate: if $m = -1$, $(3m^2)^3$	3) Evaluate: if $r = -3$, $r^3 + 2r^2 - 12r$	
4) Evaluate: if $x = -4$, $\frac{3 + x(3 + 2x) - 3^2}{x + 2 + x^2}$	4) Evaluate: if $a = 3$, $\frac{1 - 3(4a - 7) + 6}{1 - a^2}$	
5) Simplify: $12(x - 3) + 4(x - 13)$	5) Simplify: $4(3x - 15) + 3(x - 9) + x - 1$	
6) Simplify: $4x - 2y + y - 9x$	6) Simplify: $-5(x + y) + 4y$	
7) Simplify: $4x^2 + 3 + x - 8 - 3x - 6x^2$	7) Simplify: $\frac{1}{2}(x^2 + 16 - 26 - 4x - 5x^2)$	