

**Goals:**

- I can evaluate polynomial functions.

Name: \_\_\_\_\_

Algebra II  
5.3 Day 2**Ex 2: Evaluating Functions**

Question	Explanation
a. Find $f(3)$ if $f(x) = x^2 + 2x - 3$	-Substitute in whatever is in the parentheses  -Combine like terms and simplify
b. Find $f(2c - 1)$ if $f(x) = x^2 - 3x + 7$	-Sub in whatever is in the parentheses  -FOIL  -Combine like terms and simplify
c. Find $3f(a + 2) - f(2a)$ if $f(x) = x^2 - 2x + 4$	-Remember to move slowly and carefully  -Work each section on its own then combine

**Classwork and finish for homework**

Find  $w(5)$  and  $w(-4)$  for each function.

1.  $w(x) = -2x^3 + 3x - 12$

2.  $w(x) = 2x^4 - 5x^3 + 3x^2 - 2x + 8$

If  $c(x) = 4x^3 - 5x^2 + 2$  and  $d(x) = 3x^2 + 6x - 10$ , find each value.

3.  $c(y^3)$

4.  $-4[d(3z)]$