Unit 5 Quadratic Functions

Name:			

Day 3 Multiplying Polynomials (PH 9-3 and 9-4)

Date: _____ Hour: ____

There are many different ways to multiply two binomials. Two of the methods that also work when multiplying polynomials, not just binomials, will be explained here.

Example 1: Multiply (x + 2)(3x + 5)

- A) Using the distributive method:
- B) Using the box method:

Example 2: Multiply $(3d - 4)^2$

- A) Using the distributive method:
- B) Using the box method:

Example 3: Multiply (6p - 5q)(6p + 5q)

- A) Using the distributive method:
- B) Using the box method:

Example 4: Multiply $(2x - 1)(x^2 + 3x - 8)$

A) Using the distributive method:

B) Using the box method:

In Class Practice: Multiply each of the following. Try each method once and then use the method you prefer to complete the remaining exercises.

1. (4a – 6b)(2a – 3b)

2. (7k + 3)(7k - 3)

3. $(10w + 1)^2$

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