

NAME _____

Module 11 Simplifying Algebraic Expressions
with Polynomials**Lesson 5** Multiplying Polynomials**guided
notes****Lesson Objectives**

- Use the Product of Conjugates pattern to find the product of two binomials.
- Use the Square of a Sum and Square of a Difference patterns to find the product of two binomials.
- Use horizontal and vertical methods to multiply polynomials using the Distributive Property.

For any expressions a and b , $(a + b)(a - b) =$ _____. This special product is called the Product of _____.

1 Simplify: $(5 + r)(5 - r)$

For any expressions a and b , $(a + b)^2 =$ _____. This special product is called the Square of a _____.

For any expressions a and b , $(a - b)^2 =$ _____. This special product is called the Square of a _____.

2 Simplify: $(5y + 1)^2$

3 Simplify: $(m - 4n)^2$

