

NAME _____

Module 11 Simplifying Algebraic Expressions
with Polynomials

Lesson 3 Adding and Subtracting Polynomials

**guided
notes**

Lesson Objectives

- Add polynomials.
- Subtract polynomials.

A polynomial is a **monomial** _____ or sum of **monomials** _____.

A monomial is an expression containing **one term** _____.

A **binomial** _____ contains two terms.

A trinomial contains **three** _____ terms.

To add polynomials, combine **like terms** _____.

Like terms are terms with exactly the same **variable(s)** _____, with the same **exponent(s)** _____.

1 Add: $(5r - 6) + (-5r + 6)$

0

2 Add: $(3x^2 + 2xy - y^2) + (x^2 - xy + 2y^2)$

$4x^2 + xy + y^2$

To subtract a polynomial, add its **opposite** _____.

3 Subtract: $(y^2 + 2y + 8) - (y^2 - 2y + 4)$

$4y + 4$

