

Algebra I

4-5

Multiplying Polynomials by Monomials

Contrast

When Multiplying:

- 1) Like terms needed?
- 2) Coefficients:
- 3) Exponents:
- 4) Bases:

Example

$$(4x^2y)(7xy^2) =$$

When Adding:

- 1) Like terms needed?
- 2) Coefficients:
- 3) Exponents:
- 4) Bases:

Example

$$(4x^2y) + (7xy^2) =$$

When is the only time we add powers?

When is the only time we multiply powers?

Multiply. (pg 159)

5) $3y(y + 5)$

9) $3y^2 - y - 5$
2y

$$17) \frac{1}{3}x^2 (6x^2 - 9xy - 3y^2)$$

$$21) 6r^2 (2r - 1) - 3 (4r^2 - 5r)$$

Solve.

$$29) 15 = 3(x - 1) + 2(4 - x)$$

Assignment:
Pg. 159
2-38 even.