

## Operations with Polynomials (Section 2-2)

**Examples: Perform the indicated operation and simplify.**

1.  $(x + 3)(x - 4)$

2.  $(2x^2 - 3)^2$

3.  $(x - 4)^3$

4.  $(3x - 1)(5x^2 + 2x + 1)$

5.  $(4x^2 + 12x - 1) + (-2x + 2)$

6.  $(x^2 + 8x - 5) - (6x - 7)$

7.  $(3x^2y^2 + 7xy - 7 - 6xy^2) - (11xy^2 + 12 - 2y^2x^2)$