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