

**4.4 Special Products**

Name \_\_\_\_\_

Multiply and simplify where possible.

**1.**  $(x + 5)^2$

**2.**  $(a + 4)^2$

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

**4.**  $(x - 6)^2$

**5.**  $(3x + 2)^2$

**6.**  $(4x + 1)^2$

**7.**  $(5x - 3)^2$

**8.**  $(6x - 5)^2$

Answers: **1.**  $x^2 + 10x + 25$ ; **3.**  $x^2 - 6x + 9$ ; **5.**  $9x^2 + 12x + 4$ ; **7.**  $25x^2 - 30x + 9$

Multiply and simplify where possible.

9.  $(x + 3)(x - 3)$

10.  $(x + 5)(x - 5)$

11.  $(5x + 2)(5x - 2)$

12.  $(3x + 4)(3x - 4)$

13.  $(2x + 3y)(2x - 3y)$

14.  $(5x + 3y)(5x - 3y)$

Answers: 9.  $x^2 - 9$ ; 11.  $25x^2 - 4$ ; 13.  $4x^2 - 9y^2$