

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. $4x^2 - 9y^2$