Name _____ Class _____ Date _____

Reteaching 8-4

Multiplying Special Cases

OBJECTIVE: Finding the square of a binomial and finding the difference of two squares.

MATERIALS: None

Examples

Finding the square of a binomial.

Remember:
- Square the first term.
- Double the product of the two terms.
- Square the last term.
- Write the sum of your three products.

$(x - 5)^2$	**Square the first term:**	x^2
	Double $(x)(-5)$:	$2 \cdot (-5x) = -10x$
	Square the last term:	$(-5)^2 = 25$
	Write the sum of your three products:	$x^2 - 10x + 25$

Finding the difference of two squares.

Remember:
- Square the first term.
- Square the last term.
- Write the difference of your first square and your second square.

$(3x - 2)(3x + 2)$	**Square the first term:**	$(3x)^2 = 9x^2$
	Square the last term:	$(2)^2 = 4$
	Write the difference of your first square and your second square:	$9x^2 - 4$

Exercises

Find each product.

1. $(x - 7)^2$

2. $(x + 1)^2$

3. $(x - 4)^2$

4. $(x - y)^2$

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

6. $(3x - 5)^2$

7. $(2x + 1)^2$

8. $(5x - 4)^2$

9. $(x + 7)(x - 7)$

10. $(x + 8)(x - 8)$

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

12. $(x + y)(x - y)$

13. $(4x + 3)(4x - 3)$

14. $(2x + 5)(2x - 5)$

15. $(3x + 2)(3x - 2)$

16. $(7x - 1)(7x + 1)$

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