

Algebra I Class Worksheet #5 Unit 1

The Distributive Law for Multiplication Over Addition: $x(y + z) = xy + xz$

The Distributive Law for Multiplication Over Subtraction: $x(y - z) = xy - xz$

Use the appropriate distributive law to write an equivalent expression without parentheses. (Don't leave any 'double signs' in your answers.)

1. $3(x + 4) =$ _____

2. $6(x - 5) =$ _____

3. $5(2x + 7) =$ _____

4. $7(3x - 4) =$ _____

5. $-2(x + 5) =$ _____

6. $-3(5x - 4) =$ _____

Perform the indicated operations. Express your answers in simplest form.

7. $5(3x + 2y) + 2(x + 5y) =$ _____

8. $3(2a - 7b) + 3(7a + 3b) =$ _____

9. $(5x + 7y) - (2x + 3y) =$ _____

10. $(2b + 9) - (5b - 2) =$ _____

11. $2(3x - 8) - 3(4x - 5) =$ _____

12. $5(4x + 6) - 3(5x + 1) =$ _____