

Name: _____

Date: _____ Score: _____

Simple Algebraic Expressions

Order of Operations

Calculate each expression using the following order:

- ① Parenthesis ② Exponents
- ③ Multiplication and Division
- ④ Addition and Subtraction

Simplify the algebraic expressions by combining terms using order of operations.

1. $3(4x^2 + 3x - 1 + 3 + 2x)$

2. $10x - 8 + 2x^2 + 3x - 1$

3. $4x^2 - 2x + 1 - 4 \div 2$

4. $9 + x^2 - 3 + x^2 - 2x$

5. $-1(3x^2 - 2x + 2x - 3 - 5)$

6. $-2x + 7 + 3x - 7 + 1$

7. $3(x + 7) - 11 + 7x$

8. $7x - 6 - 3^2 - (-2x - x)$

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Answers

1. $3(4x^2 + 3x - 1 + 3 + 2x)$

2. $10x - 8 + 2x^2 + 3x - 1$

$$\frac{8x^2 + 10x + 4}{}$$

$$\frac{2x^2 + 13x - 9}{}$$

3. $4x^2 - 2x + 1 - 4 \div 2$

4. $9 + x^2 - 3 + x^2 - 2x$

$$\frac{4x^2 - 2x - 1}{}$$

$$\frac{2x^2 - 2x + 6}{}$$

5. $-1(3x^2 - 2x + 2x - 3 - 5)$

6. $-2x + 7 + 3x - 7 + 1$

$$\frac{-3x^2 + 8}{}$$

$$\frac{x + 1}{}$$

7. $3(x + 7) - 11 + 7x$

8. $7x - 6 - 3^2 - (-2x - x)$

$$\frac{10x + 10}{}$$

$$\frac{10x - 15}{}$$