

Integrated Algebra Practice: Expressions #2

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NAME: _____

A.A.13: Add, subtract, and multiply monomials and polynomials

1. Which expression is the simplified form of $-6 + 3x - y - 4x + 4y + 5$?

[A] $-x + 3y - 1$ [B] $7x + 5y - 11$
 [C] $3y - 2$ [D] $-7x + 5y + 1$
 [E] $3y$

Simplify:

2. $y + (-8) + (-5x) + 2y - (-7x)$
 [A] $2x + 3y - 8$ [B] $-12x + 3y + 8$
 [C] $2x + y + 8$ [D] $-12x + y - 8$

3. $(-2y) + 8 + 9x + (-4y) - 7x$
 [A] $2x - 2y - 8$ [B] $16x - 6y - 8$
 [C] $2x - 6y + 8$ [D] $16x - 2y + 8$

4. $(-4y) + (-2) + 6x + 9y - 7x$
 [A] $13x + 13y - 2$ [B] $-x + 13y + 2$
 [C] $-x + 5y - 2$ [D] $13x + 5y + 2$

5. Simplify the polynomial:

$$8c^2 - c + 3 + 2c^2 - c - 2$$

[A] $10c^2 + 1$ [B] $6c^2 - 2c + 5$
 [C] $10c^2 - 2c + 1$ [D] $6c^2 + 5$

6. Simplify the polynomial:

$$6n^2 - 2n - 3 + 5n^2 - 9n - 6$$

[A] $n^2 - 11n + 3$ [B] $11n^2 - 11n - 9$
 [C] $11n^2 + 7n - 9$ [D] $n^2 + 7n + 3$

Simplify:

7. $-2x - 6y + 4x + 9y$

8. $-9x + 8y - 8x - 2y$

9. $7x - y - 5x + 5y$

10. Compare the quantities in Column A and Column B. Which statement is true for all values of x ?

Column A

Column B

$$4(x - 3)$$

$$12x - 4 - 8(x + 1)$$

- [A] The quantity in Column A is greater.
 [B] The quantity in Column B is greater.
 [C] The quantities are equal.
 [D] The relationship cannot be determined from the information given.

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[1] A

[2] A

[3] C

[4] C

[5] C

[6] B

[7] $2x + 3y$

[8] $-17x + 6y$

[9] $2x + 4y$

[10] C