

High School Algebra Fundamentals

Algebra · Answer Key · 8 Questions

1. What is the value of x in the equation $2x + 5 = 15$?

- A) 5
- B) 10
- C) 7.5
- D) 20

2. Which property of algebra states that $a(b + c) = ab + ac$?

- A) Associative property
- B) Commutative property
- C) Distributive property
- D) Identity property

3. What is the result of simplifying the expression $3x + 2y - x + 4y$?

- A) $2x + 6y$
- B) $4x + 6y$
- C) $2x + 2y$
- D) $4x + 2y$

4. In the algebraic expression $5x^2 + 3x - 8$, what is the coefficient of the x term?

- A) 5
- B) 2
- C) 3
- D) -8

5. What is the slope-intercept form of a linear equation?

- A) $ax + by = c$
- B) $y = mx + b$
- C) $x = ay + b$
- D) $y = ax^2 + bx + c$

6. If $x = 3$, what is the value of $4x^2 - 5$?

- A) 31
- B) 19
- C) 7
- D) 103

7. What is the additive inverse of 7?

A) $\frac{1}{7}$

B) -7

C) 0

D) 1

8. Which of the following represents a binomial expression?

A) $5x$

B) $3x + 2y$

C) $x^2 + 2x + 1$

D) 7