

ALGEBRAIC EXPRESSIONS

Algebraic expressions are a mathematical term consisting of constants, variables, and algebraic operations. It is a mathematical statement with a number, a variable, and an arithmetic operation between them.

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Q1: What is the coefficient in the term $5x^2y$?

- A: 5
 - B: 2
 - C: $5x$
 - D: y
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Q2: Which of the following is an algebraic expression?

- A: $3 + 4$
 - B: $x + 2 = 7$
 - C: $2xy - 3$
 - D: $\sqrt{x} + 2$
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Q3: What is the simplified form of the expression $3(x + 2) - 2(3 - x)$?

- A: $3x + 6$
 - B: $5x$
 - C: $3x + 12$
 - D: $3x - 12$
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Q4: Identify the variable in the expression: $x - 56$

- A: 4
 - B: 56
 - C: $4x$
 - D: x
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Q5: Identify the type of algebraic expression: $5x^2 + 2x^3$

- A: Monomial
 - B: Binomial
 - C: Polynomial
 - D: None of these
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Q6: Identify the type of algebraic expression: $7x^3y^2$

- A: Monomial
 - B: Binomial
 - C: Polynomial
 - D: None of these
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Q7: Identify the type of algebraic expression: $2x^2 - 3y + 54$

- A: Monomial
 - B: Binomial
 - C: Polynomial
 - D: None of these
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Q8: Identify the constant of the expression: $8x + 4y - 26$

- A: $8x$
 - B: $4y$
 - C: $8x + 4y$
 - D: 26
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Q9: Calculate the equation in simplified form: $2(2x + 4) - 3(x + 5)$

- A: $x - 7$
 - B: $x + 7$
 - C: $3x + 15$
 - D: $9x - 8$
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Q10: Calculate the equation in simplified form: $x(x + 4) - 6(x + 2)$

- A: $x^2 + 2x + 12$
 - B: $x^2 + 2x - 12$
 - C: $x^2 - 2x - 12$
 - D: $x + 2x + 12$
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Answers

Q1: A - 5

Q2: C - $2xy - 3$

Q3: B - $5x$

Q4: D - x

Q5: B - Binomial

Q6: A - Monomial

Q7: C - Polynomial

Q8: D - 26

Q9: A - $x - 7$

Q10: C - $x^2 - 2x - 12$