What is the value of x if 5x = 25?

* A) 5
* B) 25
* C) 50
* D) 0

**Answer:** A) 5

What is the solution to the equation 3x + 4 = 13?

* A) x = 3
* B) x = 2
* C) x = 5
* D) x = 6

**Answer:** B) x = 3 Simplify: 2x + 5x = ?

* A) 7x
* B) 5x
* C) 3x
* D) 10x

**Answer:** A) 7x

If x = 3, what is the value of 4x + 2?

* A) 12
* B) 14
* C) 16
* D) 18

**Answer:** B) 14

What is the value of x in the equation x - 7 = 10?

* A) 5
* B) 17
* C) 10
* D) 3

**Answer:** B) 17

Which of the following is a linear equation?

* A) y = x^2
* B) y = 3x + 4
* C) y = x^3
* D) y = √x

**Answer:** B) y = 3x + 4 What is the solution to 7x - 3 = 31?

* A) x = 4
* B) x = 5
* C) x = 6
* D) x = 7

**Answer:** B) x = 5 Solve for x: 3(x - 4) = 12.

* A) x = 8
* B) x = 10
* C) x = 12
* D) x = 6

**Answer:** A) x = 8

What is the next number in the sequence: 1, 4, 7, 10, ...?

* A) 12
* B) 13
* C) 11
* D) 14

**Answer:** C) 11

What is the sum of the like terms 6x and 3x?

* A) 9x
* B) 6x
* C) 3x
* D) 18x

**Answer:** A) 9x

Which of the following is a term in the expression 4x + 5y?

* A) 5
* B) y
* C) x
* D) All of the above

**Answer:** D) All of the above What is the product of 2x and 3?

* A) 6x
* B) 5x
* C) 6
* D) 3x

**Answer:** A) 6x

Simplify the expression: 7(2x + 3).

* A) 14x + 21
* B) 14x + 3
* C) 7x + 3
* D) 7x + 21

**Answer:** A) 14x + 21 Solve for x: 2x + 4 = 10.

* A) x = 3
* B) x = 2
* C) x = 5
* D) x = 6

**Answer:** A) x = 3

Which of the following is an example of a quadratic equation?

* A) 2x + 3 = 7
* B) x^2 - 4 = 0
* C) 3x - 1 = 10
* D) x = 5

**Answer:** B) x^2 - 4 = 0 Solve for x: 5x + 3 = 2x + 9.

* A) x = 2
* B) x = 3
* C) x = 4
* D) x = 5

**Answer:** A) x = 2

Which of the following is an expression with 3 terms?

* A) 4x + 5
* B) 3x + 4y + 7
* C) x^2 + 2x
* D) 5x

**Answer:** B) 3x + 4y + 7

What is the value of x in the equation 2x = 16?

* A) 2
* B) 4
* C) 8
* D) 10

**Answer:** C) 8

If x = 2, what is the value of 5x + 3?

* A) 13
* B) 10
* C) 8
* D) 7

**Answer:** A) 13

Simplify the expression: 4(x + 2) - 3(x - 1).

* A) x + 5
* B) x + 7
* C) x + 6
* D) x + 3

**Answer:** A) x + 5 Solve for x: 3(x + 5) = 24.

* A) x = 3
* B) x = 4
* C) x = 5
* D) x = 6

**Answer:** A) x = 3

Which of the following represents a polynomial?

* A) 2x + 4
* B) 3x^2 + x - 2
* C) x^3 - 4x
* D) All of the above

**Answer:** D) All of the above

What is the coefficient of x in the expression 5x + 3y - 7?

* A) 5
* B) 3
* C) 7
* D) 0

**Answer:** A) 5

Which of the following is a constant term in the expression 2x + 5y - 8?

* A) 2x
* B) 5y
* C) -8
* D) 0

**Answer:** C) -8

What is the simplified form of 2x + 3x?

* A) 5x
* B) 6x
* C) x
* D) 5

**Answer:** A) 5x Solve for y: 4y = 24.

* A) y = 5
* B) y = 6
* C) y = 4
* D) y = 8

**Answer:** B) y = 6

What is the inverse of the expression 2x + 4?

* A) 2x - 4
* B) x + 4
* C) 4x + 2
* D) x - 2

**Answer:** A) 2x - 4 Solve the equation: x/3 = 6.

* A) x = 12
* B) x = 18
* C) x = 9
* D) x = 15

**Answer:** A) x = 18

If y = 3x + 4, what is the value of y when x = 2?

* A) 10
* B) 9
* C) 7
* D) 8

**Answer:** A) 10

Simplify the expression: 3x + 4y - 2x + y.

* A) x + 5y
* B) x + 4y
* C) x + 3y
* D) 4x + 5y

**Answer:** A) x + 5y