

# ALGEBRA FORMULAS

Algebra formulas are core topics in mathematics. Algebra converts numbers into alphabets like  $x$ ,  $y, z$ ,  $a, b, c$ , etc. In algebra, we find the solution by resolving these alphabets. Find the value of  $x$  in an equation like  $2x + 5 = 0$ . Students find difficulty in solving the equations related to algebra, but this blog will help you develop an understanding of these topics, and in the end, you can attempt the worksheet for your practical understanding.

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**Q1: The quadratic formula is used to find the solutions of a quadratic equation of the form:**

- A:  $ax + b = 0$
  - B:  $ax^2 + bx + c = 0$
  - C:  $bx + c = 0$
  - D:  $ax^2 + c = 0$
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**Q2: The formula to find the sum of an arithmetic series is:**

- A:  $n(n + 1) / 2$
  - B:  $n^2$
  - C:  $n / 2$
  - D:  $n(a + l) / 2$
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**Q3: What is the formula for the sum of the cubes of the first 'n' natural numbers?**

- A:  $n(n + 1) / 2$
  - B:  $n^2$
  - C:  $n / 2$
  - D:  $(n(n + 1) / 2)^2$
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**Q4: What is the algebraic expression among the following:**

- A:  $2x+y$
  - B:  $3x+6=5$
  - C:  $2+2=5$
  - D:  $6+\sqrt{2}=8$
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**Q5: What is the formula of  $(a+b)^2$**

- A:  $a^2+b^2+2ab$
  - B:  $a^2+b^2+ab$
  - C:  $a^2-b^2+2ab$
  - D: none of above
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**Q6: Find the x:  $2x=10$**

- A:  $7x$
  - B: 5
  - C:  $5x$
  - D: x
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**Q7: Solve the algebraic equation:  $2x+3=11$**

- A: 7
  - B: 6
  - C: 5
  - D: 4
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**Q8: Where can we use algebraic expressions?**

- A: Science
  - B: Architecture
  - C: Business
  - D: All of the above
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**Q9: What is the area of the rectangle?**

- A:  $a+b+c+d$
  - B:  $\frac{1}{2} b \cdot h$
  - C:  $l \cdot b$
  - D: none of the above
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**Q10:  $x^2-y^2$  is?**

- A:  $(x+y)$
  - B:  $(x+y)(x-y)$
  - C:  $(x-y)$
  - D: none of the above
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## Answers

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**Q1:** B -  $ax^2 + bx + c = 0$

**Q2:** D -  $n(a + l) / 2$

**Q3:** D -  $(n(n + 1) / 2)^2$

**Q4:** A -  $2x + y$

**Q5:** A -  $a^2 + b^2 + 2ab$

**Q6:** B - 5

**Q7:** D - 4

**Q8:** D - All of the above

**Q9:** C -  $l \cdot b$

**Q10:** B -  $(x + y)(x - y)$