

AXIS OF SYMMETRY FORMULA

The symmetric axis or the axis of symmetry refers to an imaginary line conceived in geometry and mathematics that can divide an image or a shape into two parts that are completely identical to each other.

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Q1: For a quadratic equation of the form $f(x) = ax^2 + bx + cx$, the axis of symmetry can be found using:

A: x = -b / 2a B: x = b / 2a C: x = -b / 2 D: x = -b / a

Q2: Compute the axis of symmetry for the quadratic equation: 9x²-5x+4

A: 10/18 B: 20/18 C: 5/18 D: 3/18

Q3: What is the equation for the axis of symmetry for a parabolic equation of the form $y = ax^2 + bx + cx^2$

A: x = b / 2a B: x = -b / 2a C: x = -b / 2 D: x = -b / a

Q4: The formula x = -b / 2a is used to find the axis of symmetry for:

A: Linear equationsB: Quadratic equationsC: Differential equationsD: Rational equations

Q5: There are _____ lines of symmetry in a circle.

A: Four B: Infinite C: Two D: Three



Q6: There are _____ lines of symmetry in a square.

A: Four

B: Infinite

C: Two

D: Three

Q7: A rectangle has _____ lines of symmetry.

A: Four

B: Infinite

C: Two

D: Three

Q8: An equilateral triangle has _____ lines of symmetry.

A: Four B: Infinite

C: Two

D: Three

Q9: What acts as the axis of symmetry in curves and functions in calculus?

A: x-axis

B: y-axis

C: -x-axis

D: -y-axis

Q10: Which field makes use of the concept of a symmetrical axis?

A: Art B: Architecture

C: Statistics

D: All of the above





Answers

- **Q1:** A x = -b / 2a
- Q2: C 5/18
- **Q3:** B x = -b / 2a
- Q4: B Quadratic equations
- Q5: B Infinite
- **Q6:** A Four
- **Q7:** C Two
- Q8: D Three
- Q9: B y-axis
- Q10: D All of the above