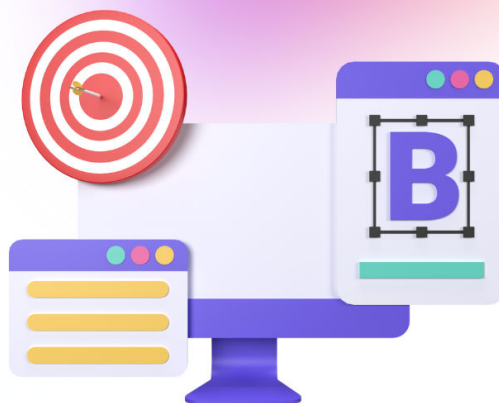


LOCUS

A Locus is an important term of mathematics as it is considered a curve or a different type of shape made by all the points joining a particular equation of the relation between its coordinates or through the point or the line or the moving surface. All these shapes, such as the ellipse, a circle, or a parabola, can be defined through the locus as a set of points.

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Q1: Which of the following is the plural form of 'locus'?

- A: Locuses
 - B: Loci
 - C: Loco
 - D: Locii
-

Q2: What is the equation of the locus for a circle?

- A: $y = mx + b$
 - B: $x^2 + y^2 = r^2$
 - C: $y = ax^2 + bx + c$
 - D: $x = 2y$
-

Q3: What is the equation of the locus for a straight line?

- A: $x = a$
 - B: $y = mx + c$
 - C: $(x - h)^2 + (y - k)^2 = r^2$
 - D: $y = a$
-

Q4: Identify the variations of Locus

- A: Parametric Equations
 - B: Conic Sections
 - C: Polar Coordinates
 - D: All of these
-

Q5: What are the assumptions of the Locus points?

- A: X_1 and Y_1
 - B: X_2 and Y_2
 - C: X_1 and X_2
 - D: Y_1 and Y_2
-

Q6: What is the estimated value of a Parametric Equation?

- A: F
 - B: G
 - C: D
 - D: E
-

Q7: What is the real-life usage of the Locus?

- A: Physics
 - B: Architecture
 - C: Engineering
 - D: All of these
-

Q8: What is the equation of the locus of a parabola?

- A: $y^2+2ax+2by+c=0$
 - B: $y^2+2ax+c=0$
 - C: $y^2+2ax+2by=0$
 - D: $Y^2+2ax+2by$
-

Q9: Identify the types of shapes having Locus points

- A: Circles
 - B: Ellipse
 - C: Hyperbola
 - D: All of these
-

Q10: Locus of a Line segment uses:

- A: Vertical Lines
 - B: Straight Lines
 - C: Horizontal Lines
 - D: None of these
-



Answers

Q1: B - Loci

Q2: B - $x^2 + y^2 = r^2$

Q3: B - $y = mx + c$

Q4: D - All of these

Q5: A - X_1 and Y_1

Q6: C - D

Q7: D - All of these

Q8: A - $y^2 + 2ax + 2by + c = 0$

Q9: D - All of these

Q10: C - Horizontal Lines