Edulyte

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.

Read more

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: X1 and Y1
B: X2 and Y2
C: X1 and X2
D: Y1 and Y2

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: y2+2ax+2by+c=0
B: y2+2ax+c=0
C: y2+2ax+2by=0
D: Y2+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 - X1 and Y1

Q6: C - D

Q7: D - All of these

Q8: A - y2+2ax+2by+c=0

Q9: D - All of these

Q10: C - Horizontal Lines