

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Equation of axis of the parabola $x^2 = 4ay$ is:	<p>A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$</p>
2	If the focus lies on the y - axis with coordinates $F(0, a)$ and directrix of the parabola is $y = -a$, then the equation of parabola is:	<p>A. $x^2 = 4ay$ B. $-x^2 = 4ay$ C. $-y^2 = 4ax$ D. $y^2 = 4ax$</p>
3	There are _____ ordered pairs that satisfy the inequality $ax + by > c$.	<p>A. Finitely many B. Two C. Infinitely many D. Four</p>
4	Question Image <input type="text"/>	<p>A. Constant B. Implicit C. Explicit D. Inverse</p>
5	Which of the following is a vector quantity ?	<p>A. Work B. Temperature C. Distance D. Displacement</p>
6	$x = 2$ is a vertical line perpendicular to _____:	<p>A. x - axis B. x - axis may be C. y - axis D. None of these</p>
7	Question Image <input type="text"/>	<p>A. $e^{2x} \sin x + c$ B. $e^{2x} \cos x + c$ C. $-e^{2x} \sin x + c$ D. $-e^{2x} \cos x + c$</p>
8	Zero vector is perpendicular to:	<p>A. Every vector B. Unit vector only C. Position vector only D. Not any vector</p>
9	Question Image <input type="text"/>	<p>A. a B. b C. c D. a + b</p>
10	The ratio in which x-axis divides the line segment joining the points:	<p>A. 1 : 1 B. 1 : 3 C. 1 : 5 D. 1 : 2</p>
11	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	<p>A. Parabola B. Circular cone C. Ellipse D. Circle</p>
12	Question Image <input type="text"/>	<p>C. 2 D. 1</p>
13	Question Image <input type="text"/>	<p>A. 2 - 7 B. 2 + 7</p>
14	Question Image <input type="text"/>	<p>A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech} x \tanh x$ C. $\operatorname{sech}^2 x$ D. $-\operatorname{sech}^2 x$</p>
15	Question Image <input type="text"/>	
16	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then $dy =$ _____	<p>A. 0.1204 B. .12 C. .02 D. 1.2</p>
		<p>A. $5 \sin x$</p>

17	Question Image	B. $\cosh(5x)$ C. $5 \cosh(5x)$ D. $-5 \cosh(5x)$
18	The set of all points in the plane that are equally distant from a fixed point is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
19	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
20	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola