

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	An integral of $3x^2$ is:	<p>A. <math>x^{&lt;sup&gt;3&lt;/sup&gt;+c</math>            B. 3            C. <math>6x</math>            D. <math>x^{&lt;sup&gt;2&lt;/sup&gt;+c</math></p>
2	Let $f(x) = \cos x$ , then $f(x)$ is an:	<p>A. Even function            B. Odd function            C. Power function            D. None of these</p>
3	The ratio in which the line segments joining (2, 3) and (4, 1) is divided by the line joining (1, 3) and (4, 3) is:	<p>A. 2 : 1            B. 3 : 1            C. 1 : 2            D. 1 : 1</p>
4	The point of a parabola which is closest to the focus is the:	<p>A. Directrix            B. Vertex            C. Focus            D. Chord</p>
5	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	<p>A. Rectangle            B. Rhombus            C. Parallelogram            D. None of these</p>
6	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	<p>A. x            B. y            C. lower limit            D. upper limit</p>
7	If $y = \sin x$ then $dy =$	<p>A. <math>\cos x dx</math>            B. <math>\cos x</math>            C. <math>\cos x dx</math>            D. <math>\cos x dy</math></p>
8	Question Image <input type="text"/>	<p>A. One variable            B. Three variable            C. Two variable            D. Four variable</p>
9	The two parts of a right circular cones are called:	<p>A. Nappes            B. Apex of the cone            C. Generator            D. Vertex</p>
10	In the translation of axes which formula is true:	<p>A. <math>x = X + h</math>            B. <math>X = x + h</math>            C. <math>x + X = h</math>            D. None</p>
11	If $f(x) = \cos x$ then $f'(0)$ is equal to:	<p>A. 0            B. -1            C. 1</p>
12	If the equation of the parabola is $y^2 = - 4ax$ , then opening of the parabola is to the _____ of the y-axis:	<p>A. Left            B. Upward            C. Right            D. Downward</p>
13	$x = 3 \cos t$ , $y = 3 \sin t$ represent	<p>A. Line            B. Circle            C. Parabola            D. Hyperbola</p>
14	Question Image <input type="text"/>	<p>A. 0            B. 1            C. 2            D. 3</p>
15	The line $x = a$ is on the right of y - axis if:	<p>A. <math>a &gt; 0</math>            B. <math>a &lt; 0</math>            C. <math>a = 0</math></p>
		<p>A. (1, 1)            B. (1, 1)</p>

16	<input type="text" value="Question Image"/>	B. (1, 3) C. (1, 4) D. (1, 5)
17	The centroid of a triangle is a point that divides each median in the ratio:	A. 2 : 1 B. 2 : 3 C. 1 : 3 D. 4 : 3
18	$ax + b < c$ is a inequality of:	A. One variable B. Two variable C. Three variable D. Four variable
19	<input type="text" value="Question Image"/>	A. Constant B. Implicit C. Identity D. Inverse
20	<input type="text" value="Question Image"/>	