

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	There are _____ ordered pairs that satisfy the inequality $ax + by > c$ .	A. Finitely many B. Two <b>C. Infinitely many</b> D. Four
2	$ax + by + c = 0$ , will represent equation of straight line parallel y-axis if:	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. $a = 0, c = 0$
3	Which one is not an exponential function ?	
4	Question Image	
5	Question Image	A. Constant function B. Absolute linear function <b>C. Linear function</b> D. Quadratic function
6	$I(J.K) =$	A. Meaningless B. -1 C. 1 D. 2
7	In equation of circle, coefficient of each of $x^2$ and $y^2$ are:	A. Not equal B. Opposite in signs <b>C. Equal</b> D. None of these
8	Question Image	A. Line B. Parabola C. Ellipse <b>D. Hyperbola</b>
9	Question Image	
10	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph <b>B. Function</b> C. Cartesian product D. Relation
11	The graph of the parabola $y^2 = -4ax$ is symmetric about:	<b>A. x-axis</b> B. $y = x$ C. $y = -x$ D. None of these
12	Let $f(x) = x^2 + 3$ , then domain of $f$ is:	A. Set of all integers B. Set of natural numbers <b>C. Set of real numbers</b> D. Set of rational numbers
13	If $s$ is the distance traveled by a body at time $t$ , the velocity is given by the expression:	
14	$x = 2$ is a vertical line perpendicular to _____:	<b>A. x - axis</b> B. x - axis may be C. y - axis D. None of these
15	$f(x)$ is odd function. If and only if:	<b>A. <math>f(-x) = -f(x)</math></b> B. $f(-x) = f(x)$ C. $f(x) = 3f(-x)$ D. $f(x) = -3f(-x)$
16	The axis of the parabola $x^2 = -4ay$ is:	<b>A. <math>x = a</math></b> B. $x = 0$ C. $y = a$ D. $y = 0$
17	Inverse hyperbolic functions are expressed in terms of natural:	<b>A. Numbers</b> B. Exponential <b>C. Logarithms</b> D. Sines
		<b>A. <math>e^{2x} \sin x + c</math></b>

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Question Image

B.  $e^{2x} \cos x + c$   
C.  $-e^{2x} \sin x + c$   
D.  $-e^{2x} \cos x + c$

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The number e denotes the \_\_\_\_\_ of the conic:

A. Directrix  
B. Vertex  
C. Focus  
D. Eccentricity

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The distance between the center of a circle and any point of the circle is called:

A. Tangents  
B. Secant  
C. Diameter  
D. Radius