

Mathematics FA Part 1 Online Test

Sr	Questions	Answers Choice
1	The lengths of the sides of a triangle are proportional to the sines of the opposite angles to the sides. This is known as:	A. The law of sines B. The law of cosines C. The law of tangents D. The fundamental law
2	Question Image	
3	A.M between $1 + x - x^2$ and $1 + x + x^2$ is:	A. $1 + x^{²}$ B. $1 + x$ C. 2 D. none
4	Question Image	A. p is false and q is true B. both p and q are false C. p is true and q is false D. both p and q are true
5	Question Image	A. 1 B. -5 C. -1 D. none
6	The distance between the points P(x1, y1) and Q(x2, y2) is:	
7	If the Discriminant of a quadratic equation is a perfect square, then roots are:	A. real and equal B. complex C. rational D. irrational
8	No. of arrangements of the letters of the word plane taking all letters at a time:	A. 5 B. 1 D. none
9	If $\tan \theta > 0$ and $\sin \theta < 0$ then terminal arm of the angle lies in quadrant:	A. I B. II C. III D. IV
10	Sum of all four fourth roots of unity is:	A. 1 B. 0 C. -1 D. 3
11	Multiplicative inverse of -i is:	A. i B. -i C. 1 D. -1
12	Question Image	A. $\cos x$ B. $\sec x$
13	$\tan(\pi + \tan^{-1}x) =$	A. x B. $\pi + x$ C. $\pi - x$ D. none of these
14	A statement which is true for all possible values of the variables involved in it, is called a:	A. tautology B. conditional C. implication D. absurdity
15	$3^{2x} - 3^x - 6 = 0$ is:	A. reciprocal equation B. exponentialequation C. radicalequation D. none of these
16	Question Image	
17	Conjugate of $-3 - 2i$ is:	A. $3 + 2i$ B. $-3 + 2i$ C. $2 + 3i$ D. $-2 + 3i$
18	The domain of $y = \sin^{-1} x$ is:	

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Question Image

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Question Image

A. 0