

Mathematics FA Part 1 Online Test

A A is superset of A C A is subset of B D, A is equivalent to B	Sr	Questions	Answers Choice
A 0 B C C C C C C C C C	1	Question Image	B. B is superset of A C. A is subset of B
3 Question image B. I. C I. D. 1 4 If z = x + i y = r (cos Θ + i sin Θ), then arg z is: B. cos supp 2e/supp -Θ except - 2e cos cos pos 2e/supp -Θ except - 2e cos pos 2e/supp - 2e/	2	Question Image	
4 If $z = x + 1 y = r (\cos \Theta + i \sin \Theta)$, then arg z is: B. cosssup-2c/sup- Θ c. r c.	3	Question Image	B. i Ci
5 Factors of $x^2 + y^2$ are: $\frac{B}{C}(x+y)(x+y)$ C , $(x+y)$ C , $(x+$	4	If $z = x + i y = r (\cos \Theta + i \sin \Theta)$, then arg z is:	B. cos ² ⊖ + sin ² ⊖ C. r
6 Which of the following is correct: B. 1 + 1 kgt, 1 - 1	5	Factors of $x^2 + y^2$ are:	B. (x + y) (x - y) C. (x + y) (x + y)
8 Question Image B. x = 0, y = 0 9 Question Image A z is purely real B. z is any complex number C. z is purely imaginary D. real part of z = imaginary part of z 10 tan⁻¹(¬√3) is: 11 Question Image A 0 B. ∞ C. 1 12 cos(tan⁻¹∞) = A x B. π+x C. π-x D. none of these 14 tan(π + tan⁻¹x) = A x B. π+x C. π-x D. none of these 15 cos (2sin⁻¹ x) = A 1 2 x sup > 2 < sup > 1 C. 2 x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x sup > 2 < sup > 1 D. x	6	Which of the following is correct:	B. 1 + i > 1 - i C. 4 + 3i > 1 + 3i
8 Question Image 9 Question Image A. z is purely real B. z is any complex number C. z is purely imaginary D. real part of z = imaginary part of z 10 tan¹¹(-√3) is: 11 Question Image 12 cos(tan⁻¹-∞) = 13 tan(π + cot⁻¹x) = 14 tan(π + tan⁻¹x) = 15 cos (2sin⁻¹ x) = 16 Question Image 17 Question Image 18 Question Image 19 Question Image	7	Question Image	
9 Question Image B. z is any complex C. z is purely imaginary part of z 10 tan⁻¹(-√3) is: 11 Question Image 12 cos(tan⁻¹∞) = A. 0 B. ∞ C. 1 13 tan(π + cot⁻¹x) = 14 tan(π + tan⁻¹x) = A. x B. π+x C. π-x D. none of these 15 cos (2sin⁻¹ x) = A. 1 - 2x sup⁻≥2√sup⁻> B. 1 + 2x sup⁻≥2√sup⁻> C. 2x sup⁻≥2√sup⁻> 1 D. x sup⁻≥2√sup⁻> 1 D. x sup⁻≥2√sup⁻> 1 16 Question Image A. 0 17 Question Image A. 0 19 Question Image	8	Question Image	
11 Question Image 12 cos(tan ⁻¹ ∞) =	9	Question Image	B. z is any complex number C. z is purely imaginary
12 $cos(tan^{-1}∞) =$ 13 $tan(π + cot^{-1}x) =$ 14 $tan(π + tan^{-1}x) =$ 15 $cos(2sin^{-1}x) =$ 16 Question Image 18 Question Image 19 Question Image	10	$tan^{-1}(-\sqrt{3})$ is:	
12 $cos(tan^{-1}ω) =$ 13 $tan(π + cot^{-1}x) =$ 14 $tan(π + tan^{-1}x) =$ 15 $cos(2sin^{-1}x) =$ 16 Question Image 17 Question Image 19 Question Image 18 Question Image 19 Question Image 18 Question Image 19 Question Image	11	Question Image	
14 $tan(\pi + tan^{-1}x) =$ $ \begin{array}{c} A. x \\ B. \pi+x \\ C. \pi-x \\ D. none of these \end{array} $ 15 $cos(2sin^{-1}x) =$ $ \begin{array}{c} A. 1 - 2x < sup > 2 < sup > 2 < sup > 2 < sup > 2 < sup > 1 \\ D. x < sup > 2 < sup > 2 < sup > 1 \\ D. x < sup > 2 < sup > 2 < sup > 1 \end{array} $ 16 Question Image $ \begin{array}{c} A. 0 \end{array} $ 17 Question Image	12	cos(tan⁻¹∞) =	B. ∞
14 $tan(π + tan^{-1}x) =$	13	$tan(\pi + \cot^{-1}x) =$	
15 cos (2sin ⁻¹ x) = B. 1 + 2x ² C. 2x ² - 1 D. x ² - 1 A. 0 17 Question Image 18 Question Image 19 Question Image	14	$tan(\pi + tan^{-1}x) =$	B. π+x C. π-x
17 Question Image 18 Question Image 19 Question Image	15	$\cos (2\sin^{-1} x) =$	B. 1 + 2x ² C. 2x ² - 1
18 Question Image 19 Question Image	16	Question Image	A. 0
19 Question Image	17	Question Image	
	18	Question Image	
20 Question Image	19	Question Image	
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