11th Class FSC Mathematics Chapter 13 Test Online

Sr	Questions	Answers Choice
1	If x is positive or zero, then the principal value of any inverse function of x, if it exists lies in the interval:	
2	The graph of x = sin y is obtained by reflecting the graph of y = sin x about the line:	A. x axis B. y axis C. y = x D. y = -x
3	The domain of principal sine function is:	
4	The range of principal sine function is:	
5	The domain of principal cosine function is:	
6	The range of principal cosine function is:	
7	The domain of principal tangent function is:	
8	The range of principal tangent function is:	
9	Domain of the function $y = \tan^{-1} x$ is:	
10	Inverse sine function is written as:	A. (sin x)⁻¹ B. sin x⁻¹ C. arc sinx D. arc sin⁻¹ x
11	$y = \sin^{-1} x$ if and only if x = sin y, where:	
12	The graph of $y = \cos^{-1} x$ is obtained by reflecting the graph of y = cos x about:	A. x-axis B. y-axis C. y = x D. y = -x
13	y = tan-1 x if and only if x = tan y, where:	A. -1 < x < 1 and - π < y < π
14	If f(x) = arccos x, then:	
15	Question Image	A. sin x B. cosec x
16	Question Image	A. cos x B. sec x
17	Question Image	A. tan x B. cot x
18	$\sin^{-1} (-x) =$	A. -sin⁻¹ x B. sin⁻¹x C. π + cos⁻¹x D. -cos⁻¹x
19	$\cos^{-1} (-x) =$	A. π + cos⁻¹ x B. π - cos⁻¹x C. π + sin⁻¹x D. π - sin⁻¹x
20	$\tan^{-1} (-x) =$	A. tan⁻¹x B. cot⁻¹x C. -tan⁻¹x D. -cot⁻¹x
21	Range of the function $y = \tan^{-1} x$ is:	
22	The domain of $y = \sin^{-1} x$ is:	
23	The range of $y = \sin^{-1} x$ is:	
24	The domain of $y = \cos^{-1} x$ function is:	
25	The range of $y = \cos^{-1} x$ function is:	

26	Question Image	A. x-axis B. y-axis C. y = x D. y = -x
27	Question Image	
28	Question Image	
29	Question Image	
30	Question Image	
31	Question Image	A. 0
32	cos (2sin^{-1} x) =	A. 1- 2x² B. 1 + 2x² C. 2x²- 1 D. x²- 1
33	tan(π + tan^{-1}x) =	A. x B. π+x C. π-x D. none of these
34	tan(π + cot^{-1}x) =	
35	cos(tan^{-1}∞) =	A. 0 B. ∞ C. 1
36	Question Image	
37	tan^{-1}(-√3) is:	