

11th Class FA Mathematics Chapter 13 Online Test

Sr	Questions	Answers Choice
1	The domain of principal sine function is:	
2	$y = \sin^{-1} x$ if and only if $x = \sin y$, where:	
3	$\cos (2\sin^{-1} x) =$	A. $1 - 2x^2$ B. $1 + 2x^2$ C. $2x^2 - 1$ D. $x^2 - 1$
4	If $f(x) = \arccos x$, then:	
5	$y = \tan^{-1} x$ if and only if $x = \tan y$, where:	A. $-1 \leq x \leq 1$ and $-\pi \leq y \leq \pi$
6	The range of $y = \sin^{-1} x$ is:	
7	The range of principal tangent function is:	
8	Question Image	
9	$\tan(\pi + \tan^{-1} x) =$	A. x B. $\pi + x$ C. $\pi - x$ D. none of these
10	$\tan^{-1} (-x) =$	A. $\tan^{-1} x$ B. $\cot^{-1} x$ C. $-\tan^{-1} x$ D. $-\cot^{-1} x$
11	Question Image	A. x-axis B. y-axis C. $y = x$ D. $y = -x$
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	The domain of $y = \cos^{-1} x$ function is:	
14	$\cos(\tan^{-1} \infty) =$	A. 0 B. ∞ C. 1
15	Question Image	A. $\sin x$ B. $\operatorname{cosec} x$
16	Question Image	
17	Question Image	
18	The range of principal cosine function is:	
19	The range of principal sine function is:	
20	Question Image	