

## 11th Class FA Mathematics Chapter 13 Online Test

Sr	Questions	Answers Choice
1	$\tan^{-1}(-\sqrt{3})$ is:	
2	$\sin^{-1}(-x) =$	A. $-\sin^{-1}x$ B. $\sin^{-1}x$ C. $\pi + \cos^{-1}x$ D. $-\cos^{-1}x$
3	If $x$ is positive or zero, then the principal value of any inverse function of $x$ , if it exists lies in the interval:	A. $\pi + \cos^{-1}x$ B. $\pi - \cos^{-1}x$ C. $\pi + \sin^{-1}x$ D. $\pi - \sin^{-1}x$
4	$\cos^{-1}(-x) =$	
5	The domain of principal tangent function is:	
6	Inverse sine function is written as:	A. $(\sin x)^{-1}$ B. $\sin x^{-1}$ C. $\text{arc sin } x$ D. $\text{arc sin}^{-1}x$
7	Question Image	A. x-axis B. y-axis C. $y = x$ D. $y = -x$
8	$\cos(2\sin^{-1}x) =$	A. $1 - 2x^2$ B. $1 + 2x^2$ C. $2x^2 - 1$ D. $x^2 - 1$
9	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. $y = -x$
10	Question Image	
11	Question Image	A. $\sin x$ B. $\text{cosec } x$
12	Range of the function $y = \tan^{-1}x$ is:	
13	The domain of $y = \sin^{-1}x$ is:	
14	Question Image	
15	Question Image	
16	The range of $y = \sin^{-1}x$ is:	
17	$\tan(\pi + \tan^{-1}x) =$	A. x B. $\pi + x$ C. $\pi - x$ D. none of these
18	$y = \sin^{-1}x$ if and only if $x = \sin y$ , where:	
19	Question Image	A. $\tan x$ B. $\cot x$
20	Question Image	A. $\cos x$ B. $\sec x$
21	The range of principal tangent function is:	
22	$\tan(\pi + \cot^{-1}x) =$	
23	$\tan^{-1}(-x) =$	A. $\tan^{-1}x$ B. $\cot^{-1}x$ C. $-\tan^{-1}x$ D. $\cot^{-1}x$

24 The domain of principal sine function is:

25 Question Image

26 Question Image

27  $\cos(\tan^{-1}\infty) =$

A. 0

B.  $\infty$

C. 1

28 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.  $y = -x$

29 If  $f(x) = \arccos x$ , then:

30 The range of principal cosine function is:

31 The range of  $y = \cos^{-1} x$  function is:

32 The domain of  $y = \cos^{-1} x$  function is:

33 The domain of principal cosine function is:

34  $y = \tan^{-1} x$  if and only if  $x = \tan y$ , where:

A.  $-1 < x < 1$  and  $-\pi < y < \pi$

35 Question Image

A. 0

36 Domain of the function  $y = \tan^{-1} x$  is:

37 The range of principal sine function is: