

11th Class ICS 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. $\text{arc sin } x$ D. $\text{arc sin } x^{-1}$
11	$y = \sin^{-1} x$ if and only if $x = \sin y$, where:	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:	
13	$y = \tan^{-1} x$ if and only if $x = \tan y$, where:	A. $-1 < x < 1$ and $-\pi < y < \pi$
14	If $f(x) = \arccos x$, then:	
15	Question Image	A. $\sin x$ B. $\text{cosec } x$
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. $\sin^{-1} x$ C. $\pi + \cos^{-1} x$ D. $-\cos^{-1} x$
19	$\cos^{-1}(-x) =$	A. $\pi + \cos^{-1} x$ B. $\pi - \cos^{-1} x$ C. $\pi + \sin^{-1} x$ D. $\pi - \sin^{-1} x$
20	$\tan^{-1}(-x) =$	A. $\tan^{-1} x$ B. $\cot^{-1} x$ C. $-\tan^{-1} x$ D. $-\cot^{-1} x$
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 $\cos(2\sin^{-1} x) =$
A. $1 - 2x^2$
B. $1 + 2x^2$
C. $2x^2 - 1$
D. $x^2 - 1$
- 33 $\tan(\pi + \tan^{-1} x) =$
A. x
B. $\pi + x$
C. $\pi - x$
D. none of these
- 34 $\tan(\pi + \cot^{-1} x) =$
- 35 $\cos(\tan^{-1} \infty) =$ A. 0
B. ∞
C. 1
- 36 Question Image
- 37 $\tan^{-1}(-\sqrt{3})$ is: