

NAT I Computer Science Mathematics

Sr	Questions	Answers Choice
1	$\sin^{-1} x = ?$	A. $\pi/2 - \sin^{-1} x$ B. $\pi/2 - \cos^{-1} x$ C. $-\sin^{-1} x$ D. $-\cos^{-1} x$
2	$\sin^{-1}(-x) = ?$	A. $\sin^{-1} x$ B. $-\sin^{-1} x$ C. $\cos^{-1} x$ D. $-\cos^{-1} x$
3	Period of $\sin 2x =$	A. π B. 4π C. $2n\pi$ D. 2π
4	What is the period of $\cot x$?	A. 2π B. π C. $\pi/2$ D. 4π
5	What is the domain of $y = \cot^{-1} x$?	A. Set of irrational numbers only B. Set of all real numbers C. Set of integers only D. Set of complex numbers only
6	What is the domain of $y = \sin^{-1} x$?	A. $-1 \leq x \leq 1$ B. $1 \leq x \leq 1$ C. $0 \leq x \leq \pi$ D. $-\pi/2 \leq x \leq \pi/2$
7	If $A = (3,8)$ and $B = (5,6)$ then the distance between A and B is	A. $2\sqrt{2}$ B. 2 C. 1 D. 6
8	$\sin x + \cos x = 1$ then $x =$	A. π B. $\pi/2$ C. $\pi/3$ D. $\pi/4$
9	If $\sin \theta = \cos \theta$ then $\theta =$	A. 30° B. 45° C. 60° D. 90°
10	$\cos 315^\circ =$	A. 0.707 B. 0.5 C. 1 D. 0