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Function	Domain	Range
i) $\sin^{-1}x$	$[-1, 1]$	$\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
ii) $\cos^{-1}x$	$[-1, 1]$	$[0, \pi]$
iii) $\tan^{-1}x$	$\mathbb{R}$	$\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
iv) $\cot^{-1}x$	$\mathbb{R}$	$[0, \pi]$
v) $\sec^{-1}x$	$\mathbb{R} \setminus [-1, 1]$	$[0, \pi] - \left\{\frac{\pi}{2}\right\}$
vi) $\csc^{-1}x$	$\mathbb{R} \setminus [-1, 1]$	$\left[-\frac{\pi}{2}, \frac{\pi}{2}\right] - \{0\}$

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