$30 \times \frac{\pi}{180}$	$60 \times \frac{\pi}{180}$	sin →	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
		cos →	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
		tan →	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞

(4) (2) $\tan^{-1}(-\sqrt{3}) = y$

$\Rightarrow (-\sqrt{3}) = \tan y$

~~$\Rightarrow -(\sqrt{3}) = \tan y$~~

$\Rightarrow -\tan\frac{\pi}{3} = \text{Tan } y$

$\Rightarrow \tan -\frac{\pi}{3} = \text{Tan } y$

$$\boxed{y = -\frac{\pi}{3}}$$ Ans

(3) (3) $\text{cosec}^{-1}(2) = y$

$\Rightarrow 2 = \text{cosec } y$

$\Rightarrow \text{cosec}\frac{\pi}{6} = \text{cosec } y$

$$\boxed{y = \frac{\pi}{6}}$$ Ans

(5) $\cos^{-1}\left(-\frac{1}{2}\right) = y$

$\Rightarrow -\frac{1}{2} = \cos y$

$\Rightarrow -\left(\frac{1}{2}\right) = \cos y$

$\Rightarrow \cos\left(\pi - \frac{\pi}{3}\right) = \cos y$

$\Rightarrow \cos\left(\frac{3\pi - \pi}{3}\right) = \cos y$

$\cos\frac{2\pi}{3} = \cos y$

$$\boxed{y = \frac{2\pi}{3}}$$ Ans

$45 \times \frac{\pi}{180}$

$\frac{\pi}{4}$

(6) $\tan^{-1}(-1) = y$

$\Rightarrow (-1) = \tan y$

$\Rightarrow \tan\left(-\frac{\pi}{4}\right) = \tan y$

$\boxed{y = -\frac{\pi}{4}}$ Ans

(7) $\sec^{-1}\left(\frac{2}{\sqrt{3}}\right) = y$

$\Rightarrow \left(\frac{2}{\sqrt{3}}\right) = \sec y$

$\Rightarrow \sec\left(\frac{\pi}{6}\right) = \sec y$

$\boxed{y = \frac{\pi}{6}}$ Ans

(8) $\cot^{-1}(\sqrt{3}) = y$

$\Rightarrow (\sqrt{3}) = \cot y$

$\Rightarrow \cot\left(\frac{\pi}{6}\right) = \cot y$

$\boxed{y = \frac{\pi}{6}}$ Ans

(9) $\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right) = y$

$\Rightarrow -\frac{1}{\sqrt{2}} = \cos y$

$\Rightarrow \cos\left(\pi - \frac{\pi}{4}\right) = \cos y$

$\Rightarrow \cos\left(\frac{4\pi - \pi}{4}\right) = \cos y$

$\Rightarrow \cos\left(\frac{3\pi}{4}\right) = \cos y$

$\boxed{y = \frac{3\pi}{4}}$ Ans

(10) $\operatorname{cosec}^{-1}(-\sqrt{2}) = y$

$\Rightarrow (-\sqrt{2}) = \operatorname{cosec} y$

$\Rightarrow -\operatorname{cosec}\frac{\pi}{4} = \operatorname{cosec} y$

$\Rightarrow \operatorname{cosec} -\frac{\pi}{4} = \operatorname{cosec} y$

$\boxed{y = -\frac{\pi}{4}}$ Ans