Student Name: _____ **Score:**

Find the exact value of a given trigonometric ratio

$\sin\frac{\pi}{2} =$	$\cos\frac{\pi}{2} =$	$\tan\frac{\pi}{6} =$
$\sin\frac{\pi}{3} =$	$\cot 0 =$	$\sec\frac{\pi}{4} =$
$\csc\frac{\pi}{6} =$	$\tan\frac{\pi}{2} =$	$\cos\frac{\pi}{4} =$
$\cos\frac{\pi}{3} =$	$\csc\frac{\pi}{4} =$	$\tan\frac{\pi}{4} =$
$\tan 0 =$	$\cos\frac{\pi}{6} =$	$\sec\frac{\pi}{2} =$
$\cot\frac{\pi}{2} =$	$\csc\frac{\pi}{3} =$	$\sin\frac{\pi}{6} =$
$\sec\frac{\pi}{6} =$	$\tan\frac{\pi}{3} =$	$\csc\frac{\pi}{2} =$
$\cot\frac{\pi}{4} =$	$\sec\frac{\pi}{3} =$	$\cot\frac{\pi}{6} =$

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Answers:

$\sin\frac{\pi}{2} = 1$ $\cos\frac{\pi}{2} = 0$ $\tan\frac{\pi}{6} = \frac{1}{\sqrt{3}}$ *or* $\frac{\sqrt{3}}{3}$

$\sin\frac{\pi}{3} = \frac{\sqrt{3}}{2}$ $\cot 0 = \infty$ $\sec\frac{\pi}{4} = \sqrt{2}$

$\csc\frac{\pi}{6} = 2$ $\tan\frac{\pi}{2} = \infty$ $\cos\frac{\pi}{4} = \frac{1}{\sqrt{2}}$ *or* $\frac{\sqrt{2}}{2}$

$\cos\frac{\pi}{3} = \frac{1}{2}$ $\csc\frac{\pi}{4} = \sqrt{2}$ $\tan\frac{\pi}{4} = 1$

$\tan 0 = 0$ $\cos\frac{\pi}{6} = \frac{\sqrt{3}}{2}$ $\sec\frac{\pi}{2} = \infty$

$\cot\frac{\pi}{2} = 0$ $\csc\frac{\pi}{3} = \frac{2}{\sqrt{3}}$ *or* $\frac{2\sqrt{3}}{3}$ $\sin\frac{\pi}{6} = \frac{1}{2}$

$\sec\frac{\pi}{6} = \frac{2}{\sqrt{3}}$ *or* $\frac{2\sqrt{3}}{3}$ $\tan\frac{\pi}{3} = \sqrt{3}$ $\csc\frac{\pi}{2} = 1$

$\cot\frac{\pi}{4} = 1$ $\sec\frac{\pi}{3} = 2$ $\cot\frac{\pi}{6} = \sqrt{3}$