

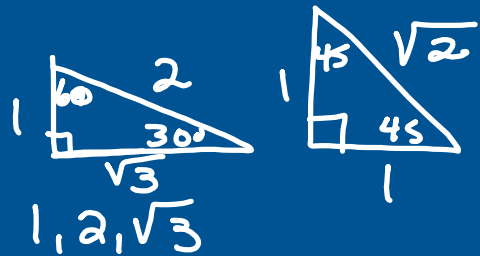
SPECIAL ANGLE VALUES

Deg	^{csc} sin	^{sec} cos	^{cot} tan	
0°	$\frac{\sqrt{0}}{2} = 0$	1	$\frac{0}{1} = 0$	
30°	$\frac{\sqrt{1}}{2} = \frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\frac{\sqrt{2}}{2}} = 1$	
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1} = \sqrt{3}$	
90°	$\frac{\sqrt{4}}{2} = 1$	0	$\frac{1}{0} = \text{undef}$	

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\tan 0^\circ = 0$$

$$\sec 30^\circ = \frac{2 \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{2\sqrt{3}}{3}$$



$$\sin 30^\circ = \frac{o}{h} = \frac{1}{2}$$

$$\cos 45^\circ = \frac{\text{adj}}{\text{hyp}} = \frac{1}{\sqrt{2} \cdot \sqrt{2}} = \frac{\sqrt{2}}{2}$$

SPECIAL ANGLE VALUES

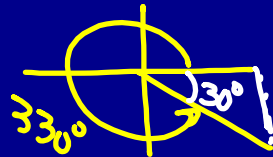
Deg	^{csc} sin	^{sec} cos	^{cot} tan	
0°	$\frac{\sqrt{0}}{2} = 0$	1	$\frac{0}{1} = 0$	
30°	$\frac{\sqrt{1}}{2} = \frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\sqrt{2}} = 1$	
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1} = \sqrt{3}$	
90°	$\frac{\sqrt{4}}{2} = 1$	0	$\frac{0}{0} = \text{undef}$	

$\text{csc } 135^\circ = \frac{2 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}}$
 $= \frac{2\sqrt{2}}{2}$
 $= +\sqrt{2}$

$\cos 120^\circ = -\frac{1}{2}$

$\frac{\sin \theta}{\csc \theta} \quad \text{All}$
 $\frac{\tan \theta}{\cot \theta} \quad \frac{\cos \theta}{\sec \theta}$

$\tan 330^\circ = -\frac{\sqrt{3}}{3}$



$\sin 270^\circ = -1$



SPECIAL ANGLE VALUES

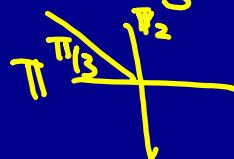
Deg	\csc sin	\sec cos	\cot tan	
0°	$\frac{\sqrt{0}}{2} = 0$	1	$\frac{0}{1} = 0$	
30°	$\frac{\sqrt{1}}{2} = \frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$	
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\sqrt{2}} = 1$	
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1} = \sqrt{3}$	
90°	$\frac{\sqrt{4}}{2} = 1$	0	$\frac{1}{0} = \text{undef}$	

$\sin^2 240^\circ - \cot(-225^\circ) \sec(540^\circ)$
 $(\sin 240^\circ)^2 - () ()$

$\left(\frac{-\sqrt{3}}{2}\right)^2 - (-1)(-1)$
 $\frac{3}{4} - 1 = \left(-\frac{1}{4}\right)$

SPECIAL ANGLE VALUES

Deg	\csc sin	\sec cos	\cot tan	Rads
0°	$\frac{\sqrt{0}}{2}=0$	1	$\frac{0}{1}=0$	0
30°	$\frac{\sqrt{1}}{2}=\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}=\frac{\sqrt{3}}{3}$	$\frac{\pi}{6}$
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\sqrt{2}}=1$	$\frac{\pi}{4}$
60°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1}=\sqrt{3}$	$\frac{\pi}{3}$
90°	$\frac{\sqrt{4}}{2}=1$	0	$\frac{1}{0}=\text{undef}$	$\frac{\pi}{2}$

$$\csc \frac{2\pi}{3} = \frac{2}{\frac{2\sqrt{3}}{3}} = \frac{2\sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} = \frac{2\sqrt{3}}{3}$$


$$\cos 5\pi = -1$$


$$60^\circ \cdot \frac{\pi}{180} = \frac{\pi}{3}$$

$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

$$\cot \frac{\pi}{3} = \frac{1}{\frac{1}{\sqrt{3}}} = \sqrt{3}$$

$$\sin \frac{7\pi}{6}$$

