Right Triangle Trigonometric References

Functions

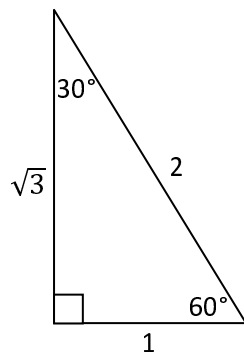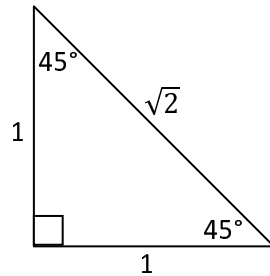|	Radians: 0	$\pi/6$	$\pi/4$	$\pi/3$	$\pi/2$	π	$3\pi/2$	2π
	Degrees: 0°	30°	45°	60°	90°	180°	270°	360°
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	-1	0
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0	1
tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	Undefined	0	Undefined	0
csc	Undefined	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1	Undefined	-1	Undefined
sec	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	Undefined	-1	Undefined	1
cot	Undefined	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	Undefined	0	Undefined

Circular Functions:

$$\sin\theta = \frac{y}{r}$$

$$\cos\theta = \frac{x}{r}$$

$$\tan\theta = \frac{y}{x}$$

$$\csc\theta = \frac{r}{y}$$

$$\sec\theta = \frac{r}{x}$$

$$\cot\theta = \frac{x}{y}$$

Right Triangle Trigonometry:

$$\sin\theta = \frac{\text{opp.side}}{\text{hyp.}}$$

$$\cos\theta = \frac{\text{adj.side}}{\text{hyp.}}$$

$$\tan\theta = \frac{\text{opp.side}}{\text{adj.side}}$$

$$\csc\theta = \frac{\text{hyp.}}{\text{opp.side}}$$

$$\sec\theta = \frac{\text{hyp.}}{\text{adj.side}}$$

$$\cot\theta = \frac{\text{adj.side}}{\text{opp.side}}$$