

## Special Triangles

degrees	0°	30°	45°	60°	90°
radians	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
sin x	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos x	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan x	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	-

## Spinning Wheel

<b> a </b>	radius
<b>k</b>	speed of rotation (radians/second)
<b>period</b>	time of one rotation ( $2\pi/k$ )
<b>q</b>	height of center

## Swinging Pendulum & Fixed Object

<b> a </b>	distance from q to extreme 2 a  is distance from one extreme to the other
<b>k</b>	nothing
<b>period</b>	time taken for back and forth swing ( $2\pi/k$ )
<b>q</b>	horizontal distance from reference (resting position)



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