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

|a|	radius
k	speed of rotation (radians/second)
period	time of one rotation (2π/k)
q	height of center

Swinging Pendulum & Fixed Object

|a|	distance from q to extreme
	2|a| is distance from one extreme to the other
k	nothing
period	time taken for back and forth swing (2π/k)
q	horizontal distance from reference (resting position)