

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 ($2\pi/k$) |
| 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 ($2\pi/k$) |
| q | horizontal distance from reference (resting position) |



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