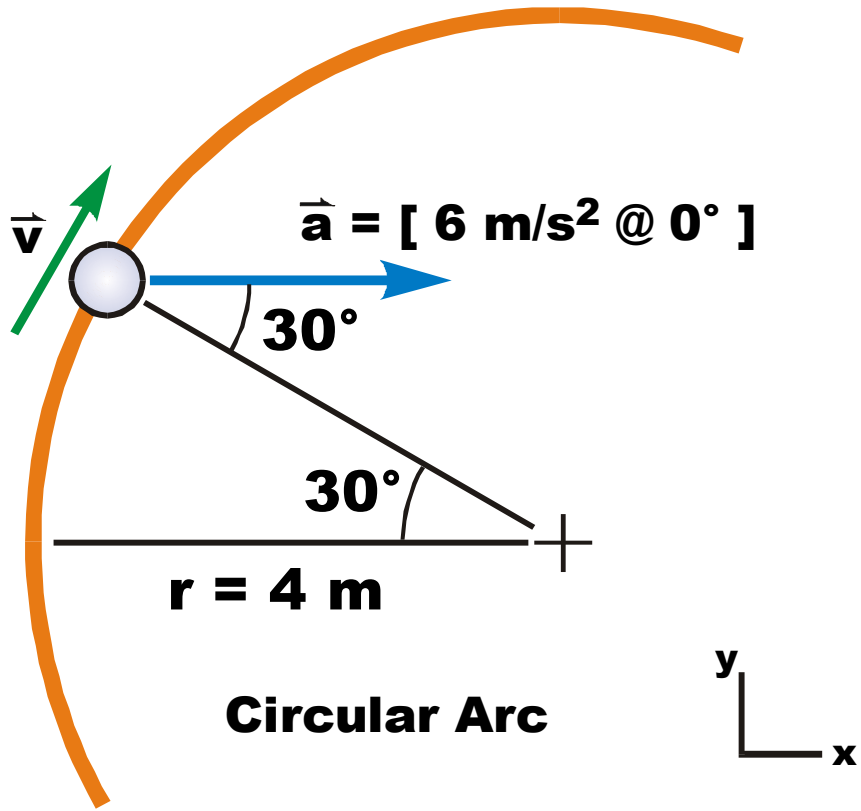
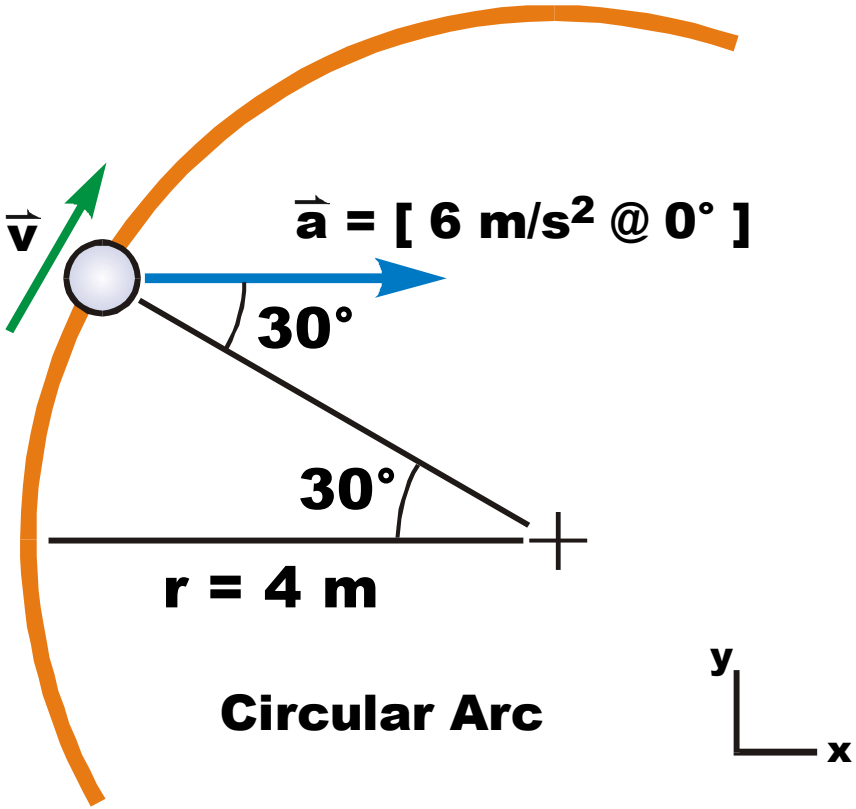
Particle Kinematics n-t Coord's Circular: Example Problem 3 (Total Accel Given)

A bead slides along a circular path. At the position shown, the particle's acceleration vector is a = [6 m/s^2 @ 0°]. Write, as a Cartesian or polar vector, the particle's velocity, v.




$\vec{v}$
$\vec{a}$ = [6 m/s^2 @ 0°]
30°
30°
r = 4 m
Circular Arc
y
x