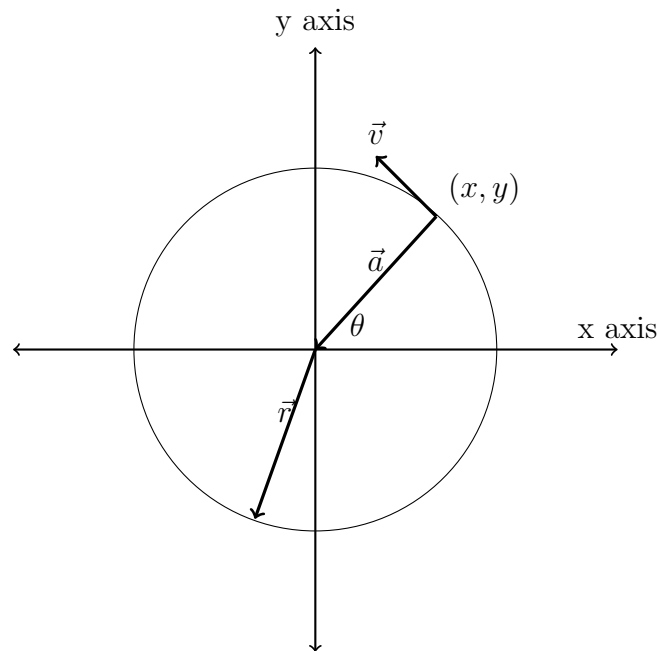


University Physics 1A

Alvin Lin

September 27th, 2017

Uniform Circular Motion



$$a = \frac{v^2}{r}$$
$$\vec{F}_{net} = m\vec{a}$$

For uniform circular motion:

$$F_{centripetal} = F_{net \ radial} = m \frac{v^2}{r}$$

where $F_{net \ radial}$ is the net force on the object towards the center of the circle.

Spring Force

Hooke's Law:

$$F_{by\ spring} = -kx$$

where k is the spring constant and x is the distance that it has been stretched or compressed from rest. Any spring that follows this law is called a Hooke's Law spring.

Reminders and Homework

Complete the homework on TheExpertTA and WebAssign.

Remember to bring the Activities Manual.

You can find all my notes at <http://omgimanerd.tech/notes>. If you have any questions, comments, or concerns, please contact me at alvin@omgimanerd.tech