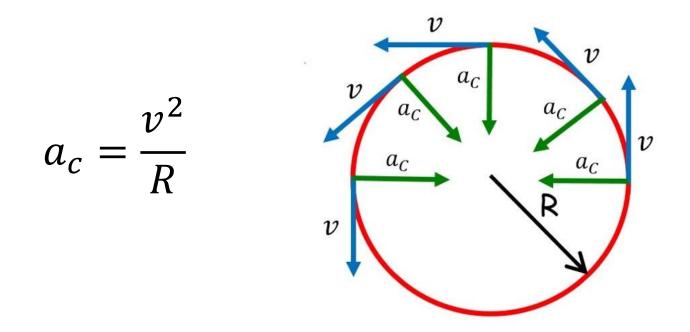
Centripetal acceleration

When moving along a circular path of radius R, with constant speed v, an object has acceleration directed towards the center, called Centripetal Acceleration:



Homework

The Figure shows an Olympian throwing a metal ball attached to a wire (the sport is called hummer throw). Assume that the ball of mass 4 kg is moving along a circular trajectory of radius 1 m, at speed 20 m/s.

a) Find the tension of the wire. You may neglect the presence of gravity.b) Can you justify why gravity may be neglected?

