

Physics 1114 - General Physics I

Quiz #12 - 2012.09.21

Solutions

1. How is radial force related to the radius of a circle if an object is undergoing uniform horizontal circular motion?

Since radial acceleration is inversely proportional to the radius of the circle, the radial force must be as well.

2. Does the radial force change if the motion is vertical (with respect to the Earth)?

No, radial force will not change, however, normal forces acting on an object undergoing vertical circular motion may differ!