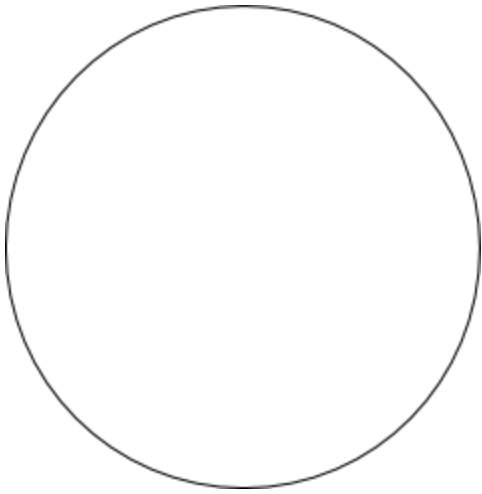# Horizontal Circles

Horizontal circles are either on a rotating disk or object travelling around a curve.

$$F_c = F_f$$

A nickel of mass 1.0g is placed on a record of radius 12cm, if the record rotates at 30rpm what minimum coefficient of friction (µ) is necessary to prevent the coin from sliding off?

A lamborghini of mass 1000kg travels through a corner of radium 50m, at what maximum velocity can it travel if μ is .85 between the tires and road?