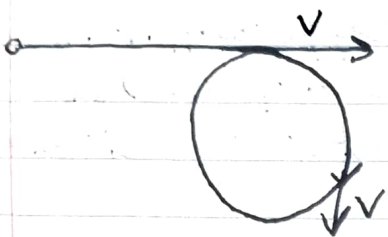


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AP Physics  
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## Class Notes (Centrifetal F & a)



A change in direction results in a change in velocity (acceleration).

Acceleration is towards the center of the circle.

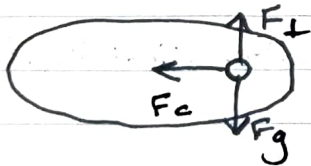


$$\vec{a}_c = \text{centrifetal}$$

$$\Sigma F_c = m \vec{a}_c$$

Centrifetal forces create centrifetal acceleration.

The direction of the force determines the direction of the acceleration.



~~Centrifetal~~ If there is an object traveling on circular path, then

$$F_c = m \cdot \frac{v^2}{r}$$

This equation does not tell us the cause, like  $F_m$ ,  
 $F_c = m \frac{v^2}{r} = M \cdot F_L$

It tells us the value/magnitude of the force