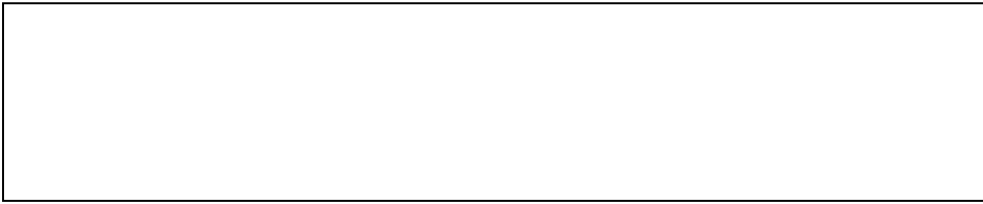


Circular Motion – Guided Notes

When you're in a car and you turn a corner, why do you feel a force towards the outside of the circle?



Centrifugal force is _____ (real/fake), but centripetal force is _____ (real/fake).

Force diagram for the physics tank moving in a circle:



If gravity is pulling a satellite down, why doesn't it fall to the ground?



Force diagram for the satellite:

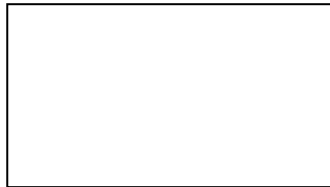


Whirled Cup Force Diagram:



(Note: Never label F_c on a Free Body Force Diagram.)

Centripetal Force Equation:



$F_c =$ _____

$m =$ _____

$v =$ _____

$r =$ _____

When an object is in circular motion (at a constant speed), the acceleration is pointed towards the _____ of the circle.

Centripetal Acceleration Equation:



$a_c =$ _____

$v =$ _____

$r =$ _____