Module 6: Gravitational Force Keywords: gravity, orbit, planet, big masses Formulas:

 $F_g = G \frac{M \cdot m}{\Gamma^2}$

 $g = \frac{GM}{r^2}$ - to calculate gravity on other planets

key points:

· Gravity is a property of mass

· Some orbits can be described by circular motion

General approach:

Oftentimes, you will need to combine $F = G \frac{Mm}{\Gamma^2}$ and $F = ma = m \frac{V^2}{\Gamma} = m \frac{45\Gamma^2\Gamma}{\Gamma^2}$

. Don't forget that r is distance between CM's