

**Principal Results from the Registered Version
*De Motu Corporum in Gyrum***

- **A sufficient condition for Kepler's area rule to hold exactly**
- **A necessary and sufficient condition for Kepler's $3/2$ power rule to hold exactly for multiple bodies moving uniformly in concentric circles**
- **A necessary condition for bodies to be moving exactly in ellipses in which all departures from uniform motion in a straight line are directed toward a focus of the ellipse**
- **A sufficient condition for Kepler's $3/2$ power rule to hold exactly for multiple bodies moving in confocal ellipses**
- **A solution for the motion of a projectile along a conic-section trajectory under a $1/r^2$ centripetal force that in principle can be applied even to comets**
- **A solution for vertical fall under a $1/r^2$ centripetal force that allows the difference between this rule and uniform acceleration in free fall to be determined**
- **A solution for Galilean motion under resistance forces that vary linearly with velocity which, in principle, allows the differences between Galileo's solutions for free fall and projectile motion and the corresponding motions in resisting media to be calculated**

So what?

What conclusions about the actual world do these results enable anyone to draw that could not have been drawn before them?