

FIGURE 2.1: Hooke's law.

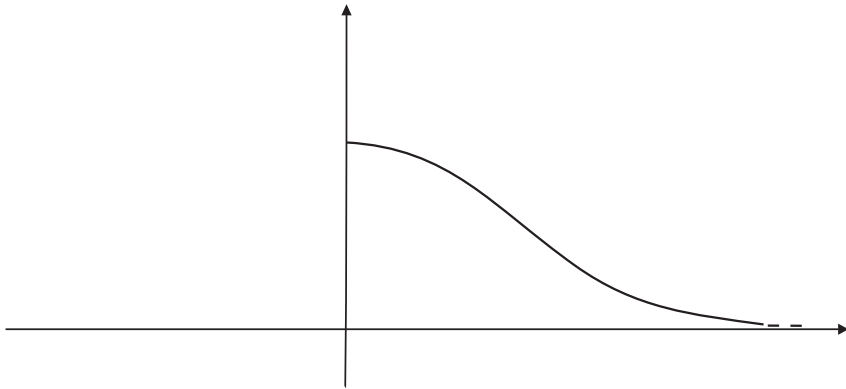


FIGURE 2.2: The motion dies out.

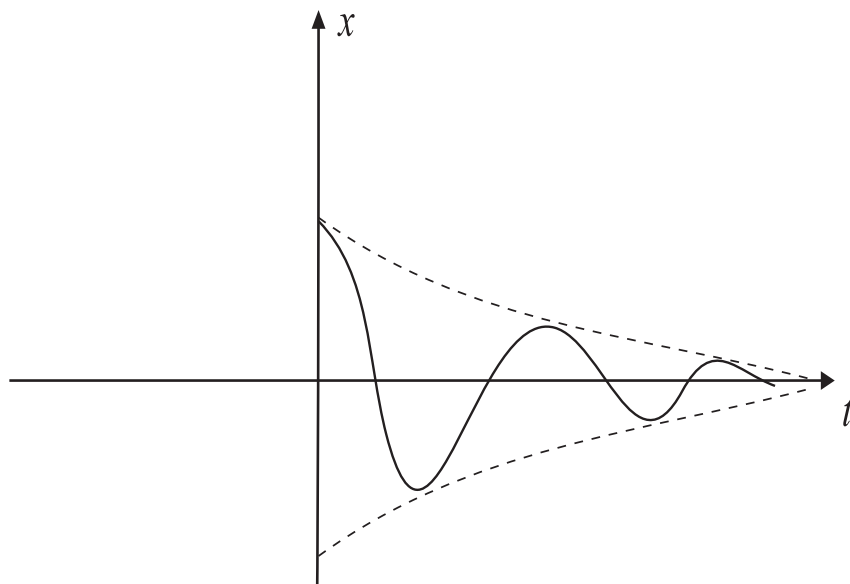


FIGURE 2.3: A damped vibration.

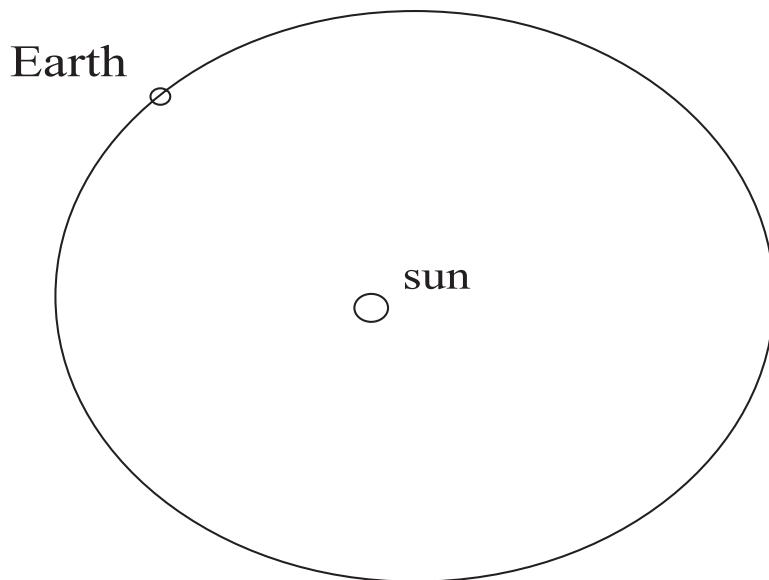


FIGURE 2.4: The elliptical orbit of the Earth about the sun.

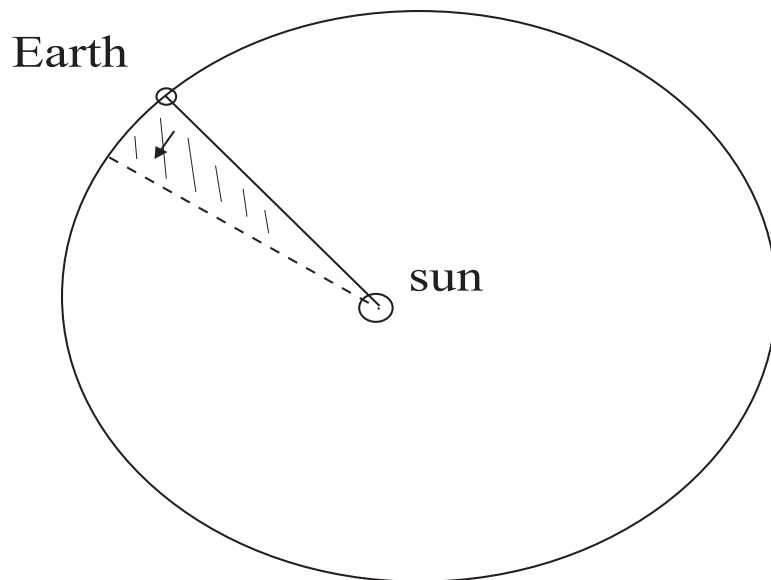


FIGURE 2.5: Area is swept out at a constant rate.

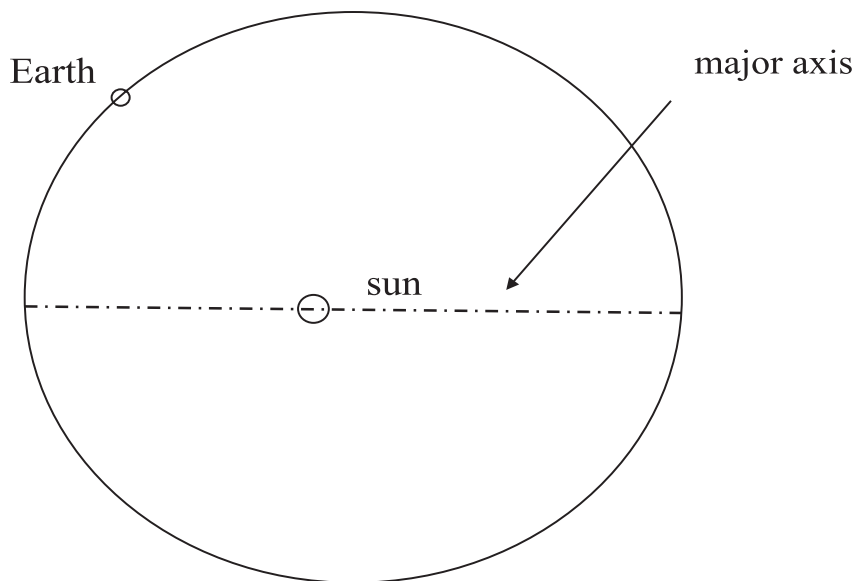


FIGURE 2.6: The square of the period is proportional to the cube of the major axis.

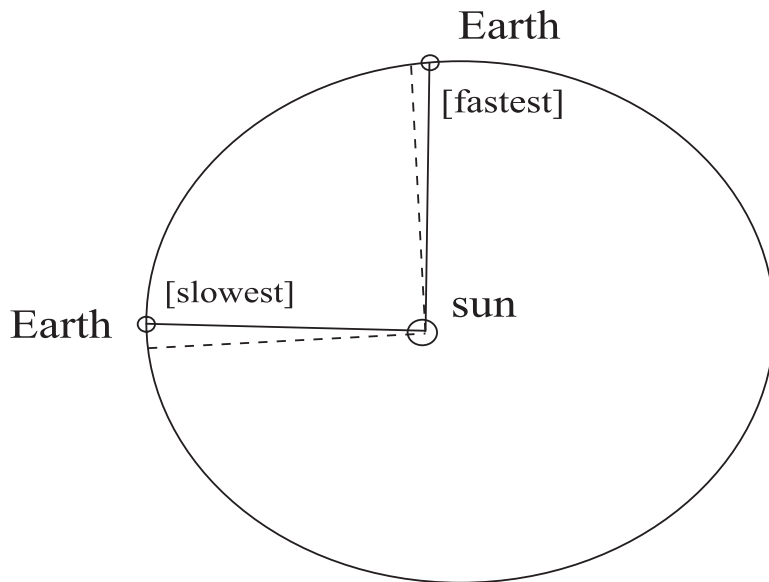


FIGURE 2.7: Apogee motion vs. perigee motion.

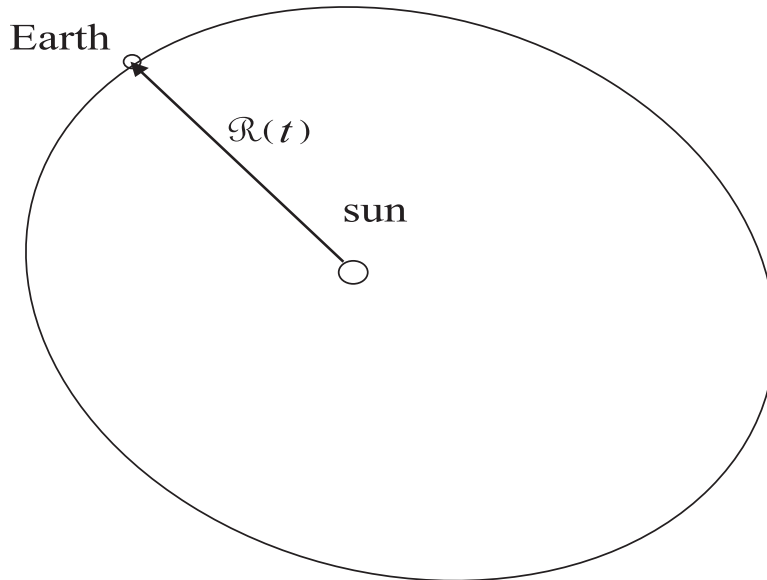


FIGURE 2.8: Polar coordinate system for the motion of the Earth about the sun.

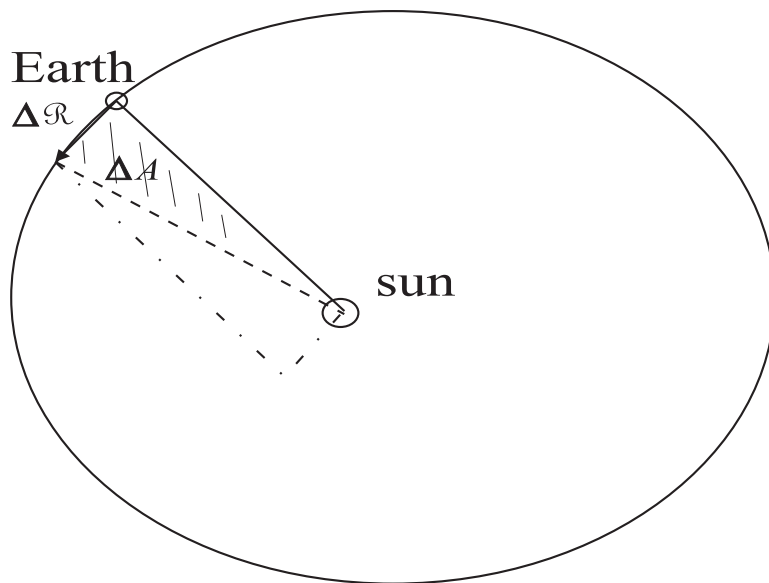


FIGURE 2.9: The increment of area.

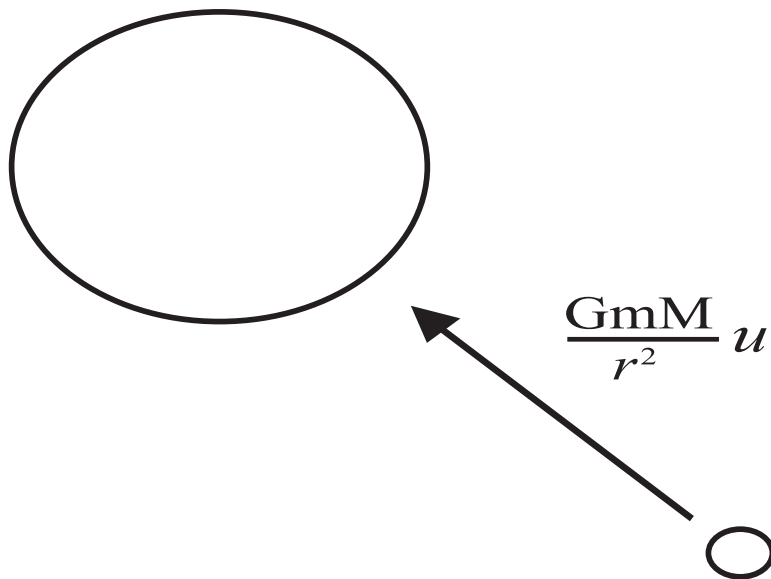


FIGURE 2.10: Newton's universal law of gravitation.

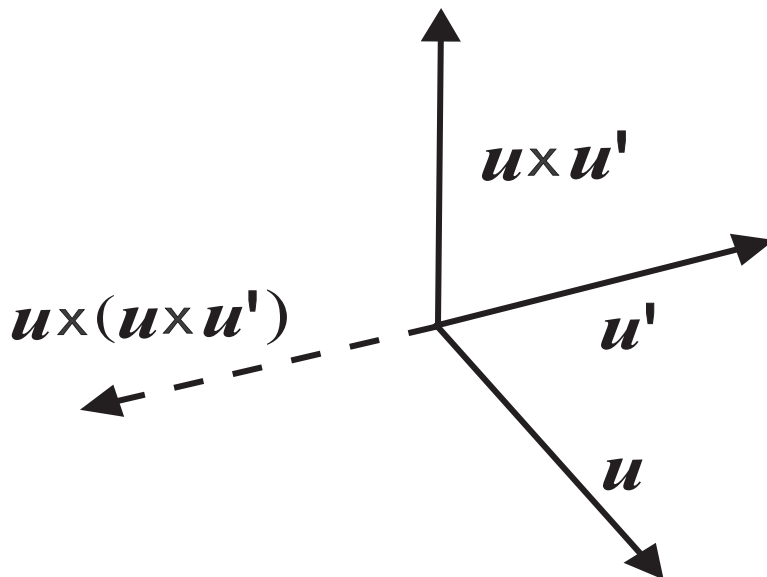


FIGURE 2.11: Calculations with u' .

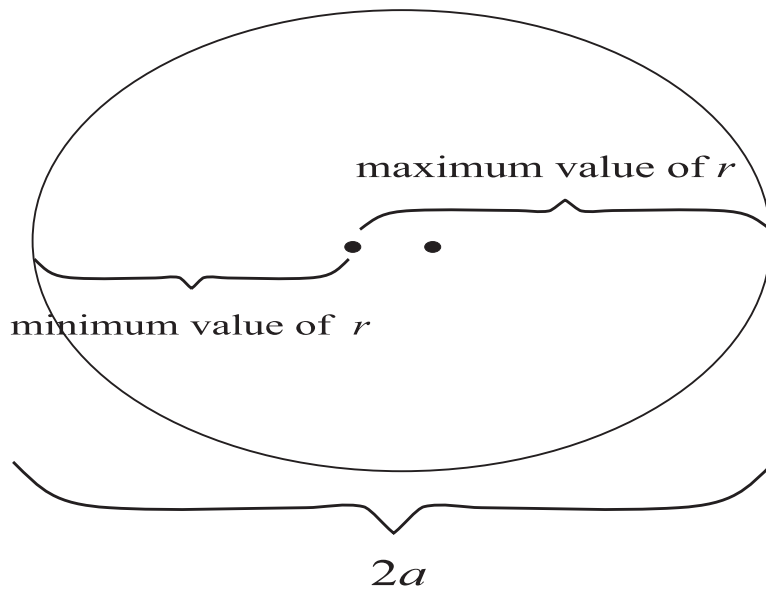


FIGURE 2.12: Analysis of the major axis.

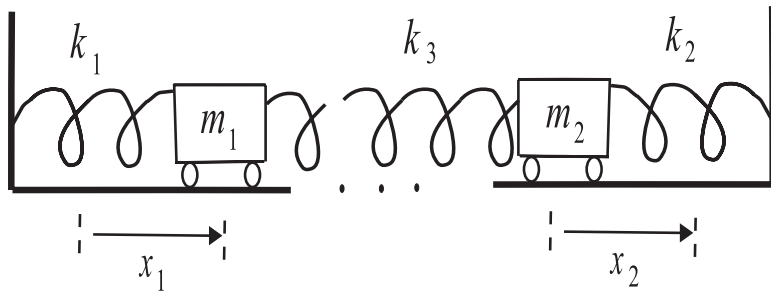


FIGURE 2.13: Coupled harmonic oscillators.

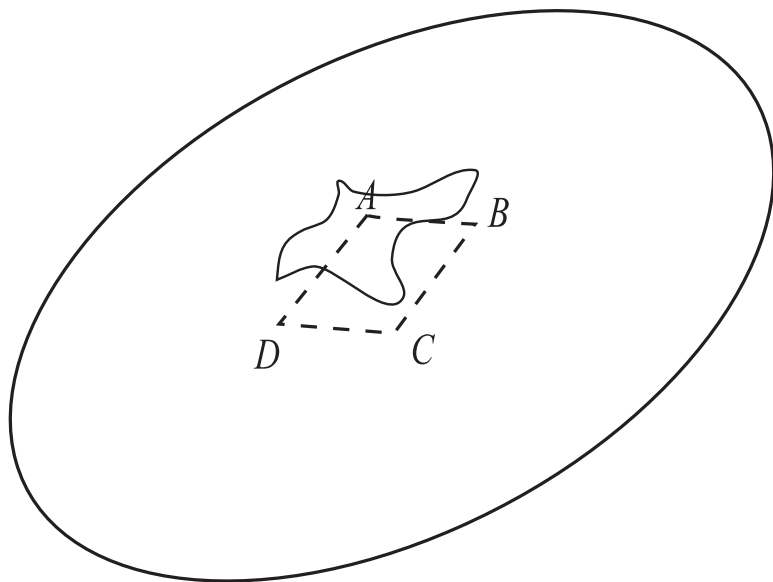


FIGURE 2.14: A segment of the vibrating membrane.