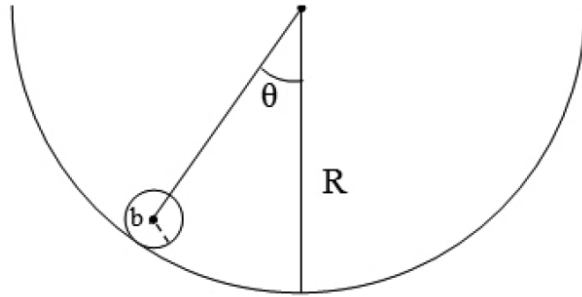


3. A marble of mass  $m$  and radius  $b$  rolls back and forth without slipping in a dish of radius  $R$ .



Find the frequency  $\omega$  for small oscillations.