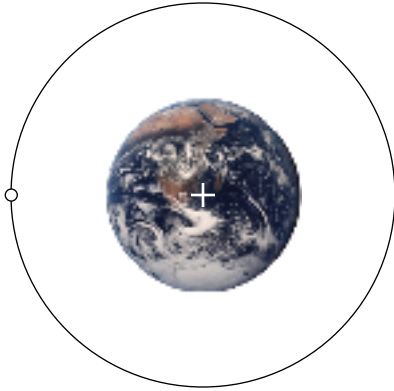
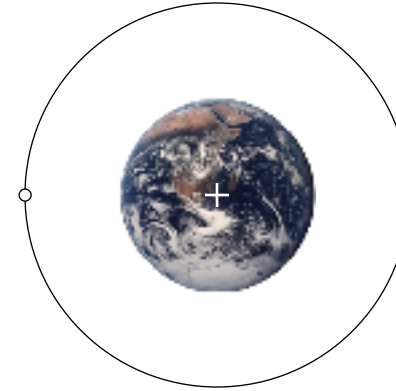


3. The drawings below show a satellite (represented as a small open circle) in a counterclockwise circular orbit about the earth. The speed of the satellite is changed abruptly as described in the paragraph above the drawing. Sketch the new path of the satellite after the speed has changed.

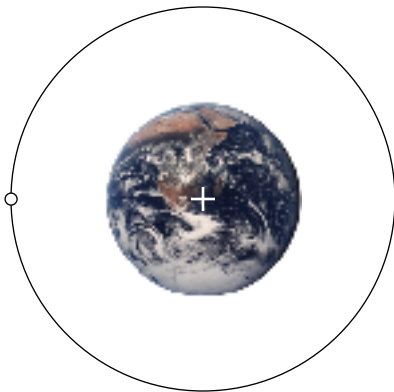
a) The speed of the satellite is reduced, but it does not crash into the earth. Sketch the satellite's new orbit.



b) The speed of the satellite is increased, but it does not escape the earth. Sketch the satellite's new orbit.



c) The speed of the satellite is reduced to zero. Sketch the path the satellite will take until it strikes the earth.



d) The speed of the satellite is increased and it escapes the earth. Sketch the satellite's new path to the edge of the page.

