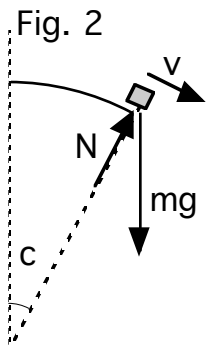
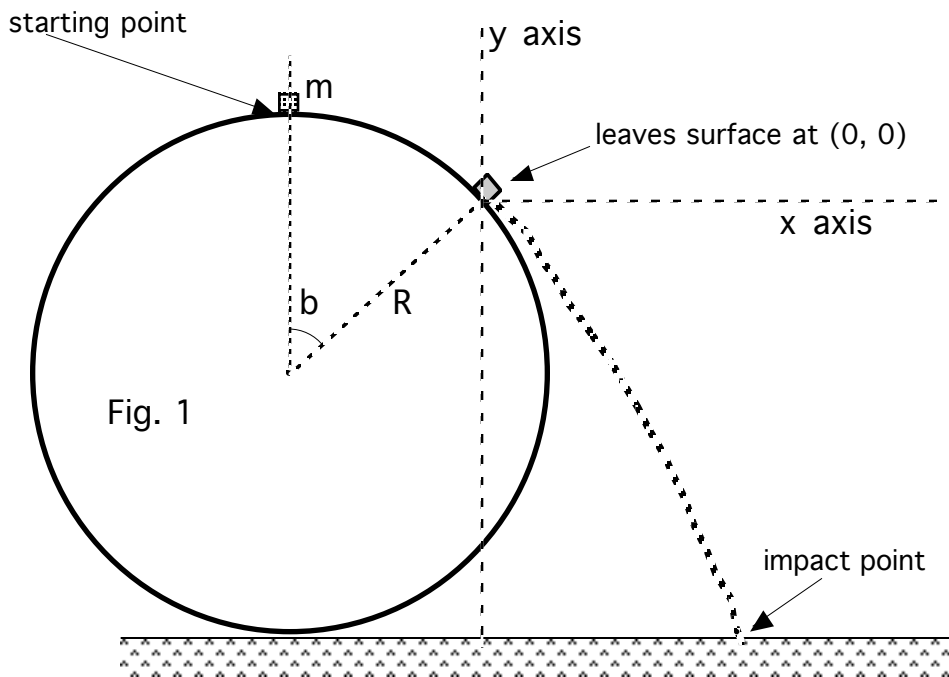


Small frictionless mass starts from rest at top of surface, slides to point where it loses contact, then in free fall to ground.



Forces mg and N after leaving starting point, now moving at speed v before losing contact.