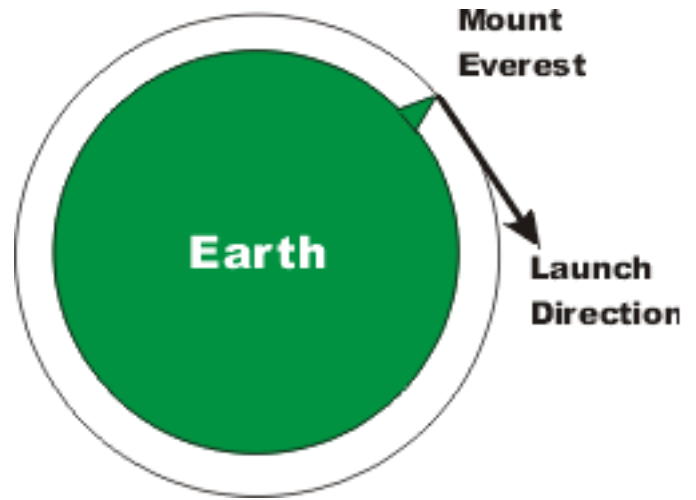


Suppose Earth had no atmosphere and a ball were fired from the top of Mt. Everest in a direction tangent to the ground.



The initial speed is high enough to cause the ball to travel in a circular trajectory around Earth. The ball's acceleration is:

1. much less than g , since the ball doesn't fall to the ground
2. approximately g
3. dependent on the ball's speed