Cool Example

A horizontal copper ring is dropped from rest directly above the north pole of a permanent magnet





e-m cannon

Will the acceleration *a* of the falling ring in the presence of the magnet be any different than it would have been under the influence of just gravity (i.e. *g*)?

A. a > g

B. a = g

C. a < g

This one is hard ! B field increases upward as loop falls Clockwise current (viewed from top) is induced Main Field produces horizontal forces "Fringe" Field produces vertical force