Problem 6.40

An 8 gram bullet fired into a 250 gram block initially at rest at edge of 1.0 meter high table. If bullet remains in block and lands 2 meters from table after impact:

- a.) Where is energy conserved?
- b.) Where is energy not conserved?
- c.) Where is momentum conserved?
- d.) What kind of collision is this?
- e.) What must the initial velocity be?



