PHYS 1110 Worksheet: Potential Energy
An egg is released from rest from the roof of a building and falls to the ground. Its fall is observed by a student on the roof of the building, who uses coordinates with origin at the roof, and by a student on the ground, who uses coordinates with origin at the ground.
What values do the students assign to:
a. The initial gravitational potential energy $U_{ m grav}$?
b. The final gravitational potential energy $U_{ m grav}$?
c. The change in gravitational potential energy $\Delta U_{ m grav}$?
d. The kinetic energy K of the egg just before it lands?

1.