

### **Physics 10154 - Quiz 2A**

A ball is thrown up vertically from ground level with some initial velocity. The ball is in free fall throughout its motion. 35 meters above ground, a person standing on top of a building watches the ball go by on its way up and starts a stop watch at that moment. The person measures 2.3 seconds from the time the ball passed until it reaches its maximum height.

- a) What was the initial velocity of the ball when it was first thrown?
- b) To what maximum height above ground level does the ball reach?