PHYS 1110 Group Work Sheet 6 Projectile motion

The distance-distance grid below shows two vectors: \vec{A} , the change in position of a ball after 1 s in flight, and \vec{B} , the vector that is added to the change every second by the acceleration due to gravity. Determine the subsequent positions of the ball at 1-s intervals using the following procedure:

- a. Starting at the ball's current position, copy the displacement vector from the previous second.
- b. Add the change vector \vec{B} to it..
- c. Repeat steps a-b until the ball hits the ground.

