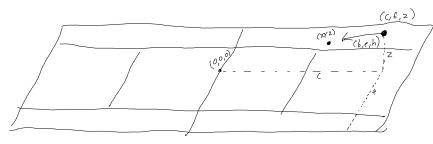
Simulation Shot Calculations

Ball has a starting position (XY.Z)
Think about normal spot that a ball would be in when hit from a serve/volley
Ball has an initial trajectory direction and velocity
Find average volley/serve speed and choose a vector direction that would get over to the other size del the court
Given starting XYZ, what is the new XYZ considering the trajector/velocity/gravity at time t

Equations should have the body:  $< t > t = x^2 + y + f$ ,  $z(t) = x^2 + 2 + h^2z + b$  where (c, f, z) is the initial position of the tennis ball in 3d space. (b, e, h) are the initial velocity of the ball in 3d space.

make y different ofn with different initial position/trajectory

input: toutput: X, Y, Z



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