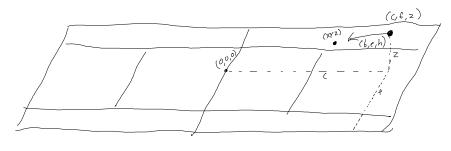
Simulation Shot Calculations

Ball has a starting position (x/x2)
a. Think about normal spot that a ball would be in when hit from a serve/volley
Ball has an intil trajectory direction and velocity
a. Find average volley/erre speed and choose a vector direction that would get over to the other ball of the court
for the other starting x/xz, what is the new x/xz considering the trajector/velocity/gravity at time t

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

input: + output = X, Y, Z make Y different of with different indial position/trajectory



$$F_{gn}$$
 1: $\langle X, Y, Z7 = Shot | (+)$
 F_{gn} 2: $\langle X, Y, Z7 = Shot | 2(+)$
 \vdots
 F_{gn} 3: $\langle X, Y, Z7 = Shot | 3(+)$

Shot I has
$$(x_1, y_1, z_1)$$
. Initial ball center position in 3D (V_X, V_Y, V_Z) . Initial ball velocity of X, Y, Z components

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