Practice 2)

P: Solve for time at which the built hits the ground.

Calculate x cords for all values Calculate y cords for all volves. plot in excel

R:)

(): height (4) = 5 m T = .1,.2,.3,...

V, = 10 m/5 any = 42° a/g = -981 m/s2 V2 = anknown.

Cakulate:) givens. To, V, a, h, V2 to find y=

Solve for Vz first

V== Vo-29T(1)== 10m/s-(-9.81)(.1)

Now Y. cord via y = yo + Vot - 1/2 at 2.11.

4= 5+10m/s(+)-1/3 (-9.81)(+)2 -> 5+ 10. SIN(42)(+) -1/2 (-9.81)(+)2

X = 5 + 10 w/s(t) - 3(0)(t)2 -> S+10. cos (42)(+) -72 (05)(+)2

Find y com for is suited Velocity and x com For x initial.