3 July 2018 group task in calculus:

Edited at 1pm 3 July 2018.

Solve the linear and non-linear real projectile problems for A = 89 degrees, V = 89, R = 1/89.

Linear:

x'' + Rx' = 0

y'' + Ry' = -g

Non-linear:

x'' + R(x')2 = 0

y'' + R(y')2 = -g

g = 10

x(t)

y(t)

t = time

x(0) = 0

x'(0) = Vcos(A)

y(0) = 0

y'(0) = Vsin(A)

http://www.wolframalpha.com/widgets/view.jsp?id=e602dcdecb1843943960b5197efd3f2a