

- 1000 balls
- 0.3 kg in total
- 0.002 each in radius
- 1.81×10^{-5} kg/(ms) viscosity

```

air_density = 1.225
air_viscosity = 1.81*10^(-5)
radius = 0.002
mass = 0.3

# V = var("V")
# reynolds(V) = (air_density*V*(2*radius))/air_viscosity

# reynolds(10)

drag_coefficient = 0.8

F_d = drag_coefficient*0.5*air_density*pi*radius^2*V^2

float(solve(F_d * 1000 - mass*9.8, V)[1].rhs())

```