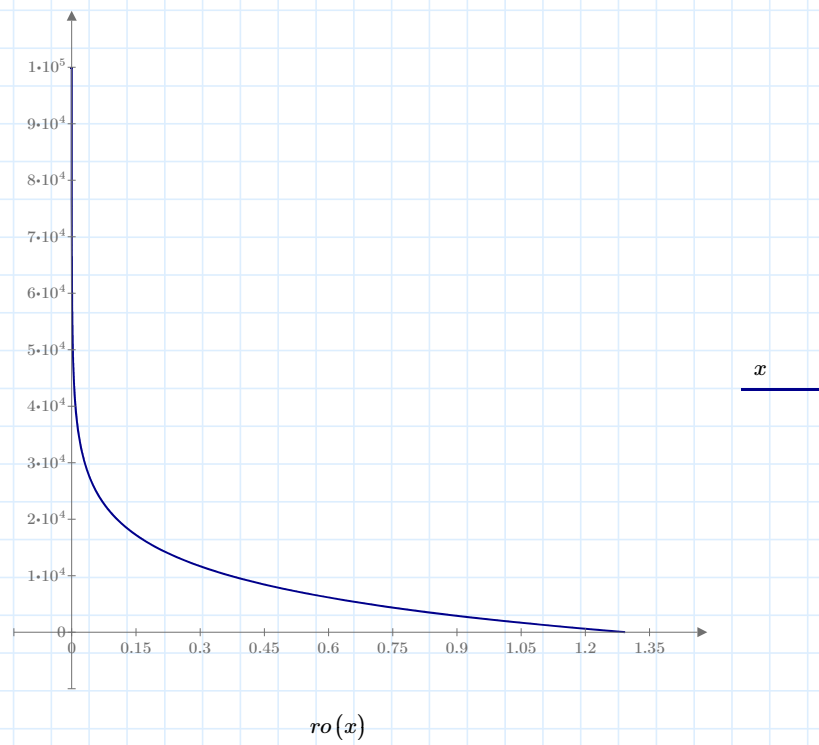




$$ro(n) := 1.293 \cdot e^{-\frac{1.293 \cdot 9.81}{101325} \cdot n}$$

$$cw(M) := 0.2$$

$$x := 0, 100 \dots 100000$$



$$x''(t) = -k(t) \cdot ro(y(t)) \cdot cw \left( \frac{\sqrt{x'(t)^2 + y'(t)^2}}{vljud} \right) \cdot (x'(t)^2 + y'(t)^2) \cdot \cos \left( atan \left( \frac{y'(t)}{x'(t)} \right) \right) + \frac{F(t)}{m(t)} \cdot \cos \left( atan \left( \frac{y'(t)}{x'(t)} \right) \right)$$

$$y''(t) = -k(t) \cdot ro(y(t)) \cdot cw \left( \frac{\sqrt{x'(t)^2 + y'(t)^2}}{vljud} \right) \cdot (x'(t)^2 + y'(t)^2) \cdot \sin \left( atan \left( \frac{y'(t)}{x'(t)} \right) \right) - g + \frac{F(t)}{m(t)} \cdot \sin \left( atan \left( \frac{y'(t)}{x'(t)} \right) \right)$$

$$x(0) = 0 \quad y(0) = h \quad x'(0) = v0 \cdot \cos(\alpha) \quad y'(0) = v0 \cdot \sin(\alpha)$$

$t := 0, 0.1 \dots end$

$$\begin{bmatrix} X \\ Y \end{bmatrix} := \text{Odesolve} \left( \begin{bmatrix} x(t) \\ y(t) \end{bmatrix}, end, n \right)$$

