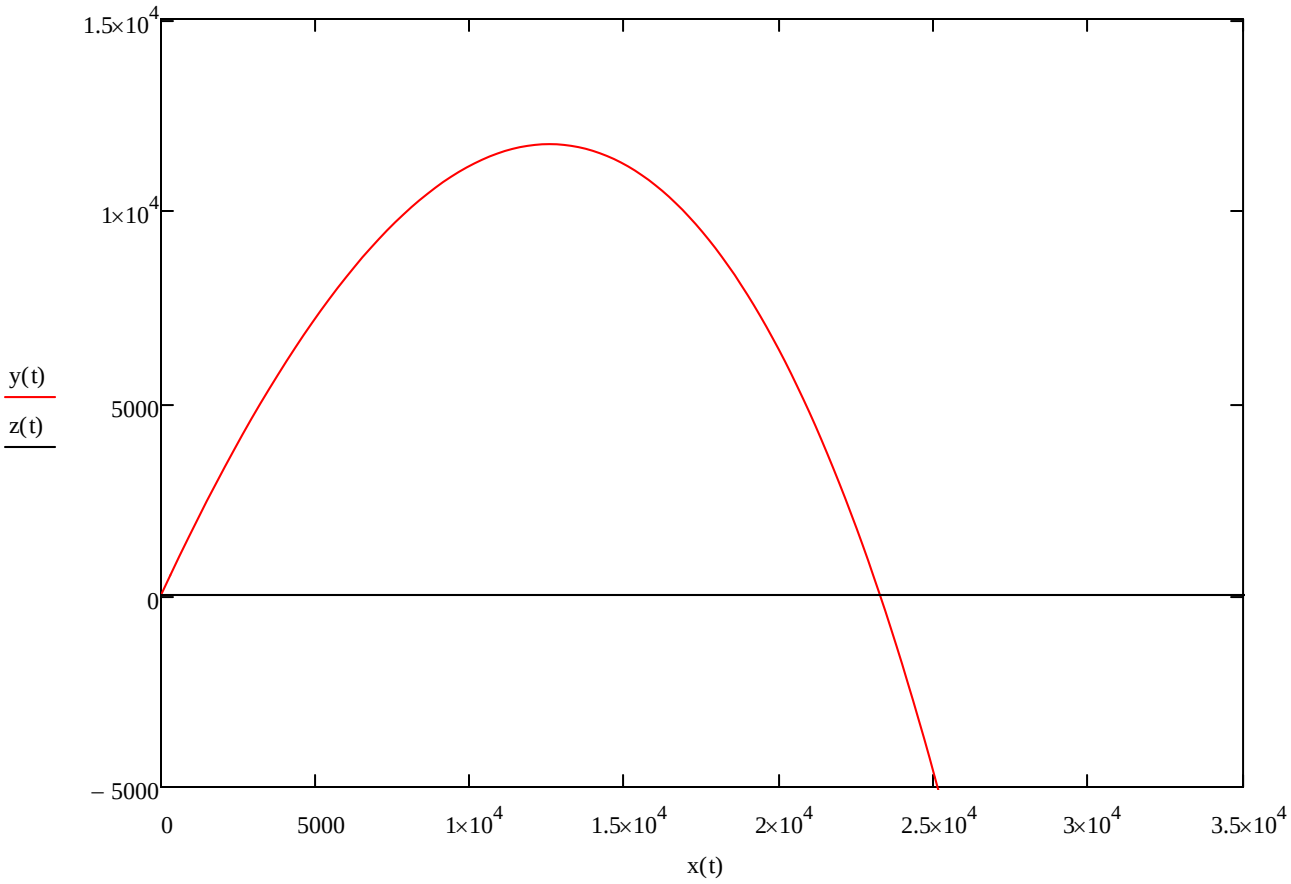
$h := 0 \qquad k := .005 \qquad v_o := 600 \qquad \theta := \frac{\pi}{3} \qquad g := 9.8 \qquad t := 0 .. 200$

$z(t) := 0$

$$x(t) := \frac{v_o \cdot \cos(\theta)}{k} \cdot \left(1 - e^{-k \cdot t}\right)$$

$$y(t) := h + \frac{-g \cdot t}{k} + \frac{k \cdot v_o \cdot \sin(\theta) + g}{k^2} \cdot \left(1 - e^{-k \cdot t}\right)$$



Range (graph):

$R := 2.325 \times 10^4$

$$R := \frac{v_o^{\,2}\cdot\sin(2\cdot\theta)}{g}$$

$$R' := R\cdot\left(1 - \frac{4\cdot k\cdot v_o\cdot\sin(\theta)}{3g}\right) \qquad R' = 2.057\times 10^{4}$$