$km := 1000$

$r1 := 6700km \qquad r2 := 6300km$

$a := 9.81 \cdot \left(\frac{r2}{r1}\right)^2 \qquad Vkph := 27600$

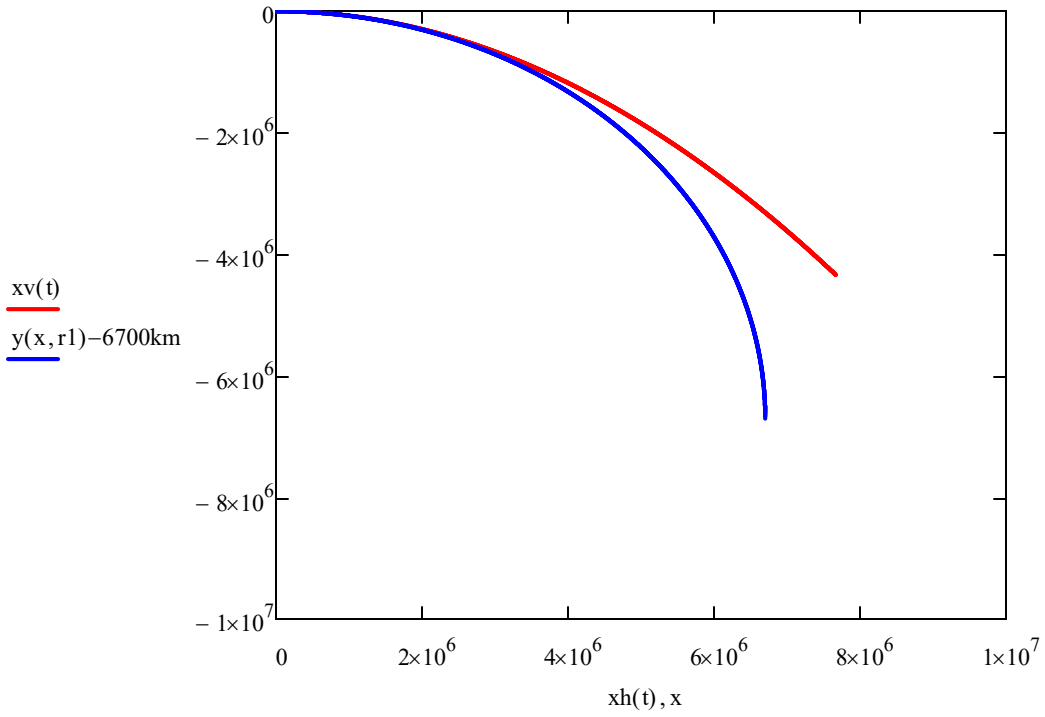
$vh(t) := \frac{Vkph}{3.6} \qquad xh(t) := vh(t) \cdot t$

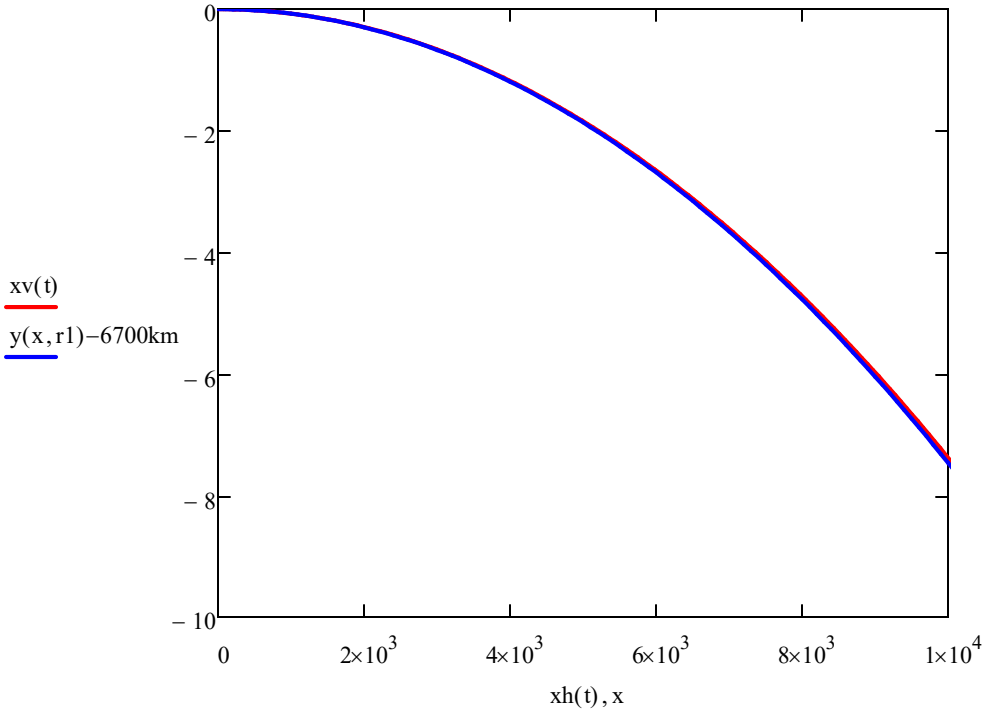
$Vv(t) := a \cdot t \qquad xv(t) := -0.5 \cdot a \cdot t^2$

$t := 0, 0.01 .. 1000 \qquad x := 0, 100 .. 10000000$

$x^2 + v^2 = r^2$

$y(x, r1) := \sqrt{r1^2 - x^2}$




xv(t)
y(x, r1) − 6700km
0
− 2
− 4
− 6
− 8
− 10
0
2×10^3
4×10^3
6×10^3
8×10^3
1×10^4
xh(t), x

$y(x, r1) =$

	0
0	$6.7 \cdot 10^6$
1	$6.7 \cdot 10^6$
2	$6.7 \cdot 10^6$
3	$6.7 \cdot 10^6$
4	$6.7 \cdot 10^6$
5	$6.7 \cdot 10^6$
6	$6.7 \cdot 10^6$
7	$6.7 \cdot 10^6$
8	$6.7 \cdot 10^6$
9	$6.7 \cdot 10^6$
10	$6.7 \cdot 10^6$
11	$6.7 \cdot 10^6$
12	$6.7 \cdot 10^6$
13	$6.7 \cdot 10^6$
14	$6.7 \cdot 10^6$
15	...