

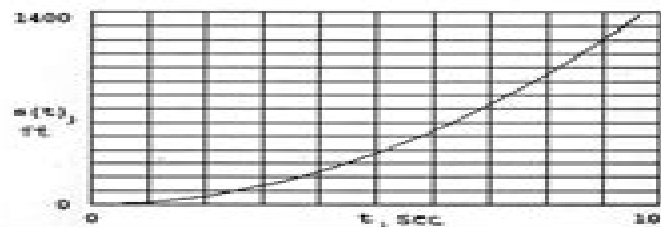
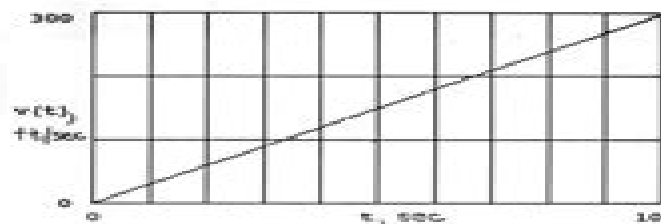
#2/253 $a = \frac{dv}{dt} = c_1 - c_2 v^2$
 $\int_0^t dt = \int_0^v \frac{dv}{c_1 - c_2 v^2} = \frac{1}{\sqrt{c_1 c_2}} \tanh^{-1} \sqrt{\frac{c_2}{c_1}} v \Big|_0^v$
 $t = \frac{1}{\sqrt{c_1 c_2}} \tanh^{-1} \sqrt{\frac{c_2}{c_1}} v$

Then $v = \frac{ds}{dt} = \sqrt{\frac{c_1}{c_2}} \tanh \sqrt{c_1 c_2} t$
 $\int ds = \sqrt{\frac{c_1}{c_2}} \int_0^t \tanh \sqrt{c_1 c_2} t dt$
 $s = \sqrt{\frac{c_1}{c_2}} \cdot \frac{1}{\sqrt{c_1 c_2}} \ln (\cosh \sqrt{c_1 c_2} t) \Big|_0^t$
 $= \frac{1}{c_2} \ln (\cosh \sqrt{c_1 c_2} t)$

With $s = 1320$ ft, $c_1 = 30$ ft/sec², $t = 9.4$ sec:
 $1320 = \frac{1}{c_2} \ln (\cosh \sqrt{30 c_2} \cdot 9.4)$
 $= \frac{1}{c_2} \ln (\cosh 51.5 \sqrt{c_2})$

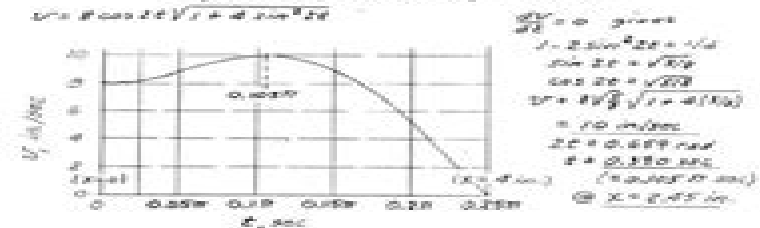
Numerical solution: $c_2 = 9.28$ (sec⁻¹) ft⁻¹

(On plots below, note that v vs. t appears linear, but it is not!)



#2/254 $a = v \frac{dv}{dy} = -g - kv^2$
 $\int_{v_0}^0 \frac{v dv}{-g - kv^2} = \int_0^h dy$
Let $u = g + kv^2$, $du = 2kv dv$: $\int_{v_0}^0 -\frac{1}{2k} \frac{du}{u} = h$
 $h = -\frac{1}{2k} \ln (g + kv^2) \Big|_{v_0}^0 = -\frac{1}{2k} \ln \left(\frac{g}{g + kv_0^2} \right)$
 $2kh = \ln \left(1 + \frac{kv_0^2}{g} \right)$: $2(528)(3.63) \ln \left(1 + \frac{2 \text{ sec}^2 \text{ ft}}{32.2} \right)$
Solve numerically to obtain $k = 3.63$ (sec⁻²) ft⁻¹

#2/255 $y = x^2/8$, x & y in inches; $x = 4 \sin 2t$, t in seconds
 $\dot{y} = \frac{dy}{dt} = 2 \sin 2t (2 \cos 2t) = 4 \sin 2t \cos 2t$ in./sec
 $\dot{x} = 8 \cos 2t$
 $v^2 = \dot{x}^2 + \dot{y}^2 = 64 \cos^2 2t + 16 \sin^2 2t \cos^2 2t$
 $= 64 \cos^2 2t (1 + \sin^2 2t)$ (in./sec)²
 $v = 8 \cos 2t \sqrt{1 + \sin^2 2t}$



#2/258 Set up x-y coordinates @ A: $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} R \\ h \end{pmatrix}$
Let coordinates of B be (R, h) .
 $x = x_0 + v_{x0} t$ @ B: $R = 0 + (v_0 \cos \alpha) t$ (1)
 $y = y_0 + v_{y0} t - \frac{1}{2} g t^2$ @ B: $h = 0 + (v_0 \sin \alpha) t - \frac{1}{2} g t^2$ (2)
Solve (1) & (2) for R & t :
 $R = \frac{v_0 \cos \alpha}{g} \left[v_0 \sin \alpha + \sqrt{v_0^2 \sin^2 \alpha - 2gh} \right]$
 $t = \frac{1}{g} \left[v_0 \sin \alpha + \sqrt{v_0^2 \sin^2 \alpha - 2gh} \right]$
where the + sign has been taken to maximize R .
Set $\frac{dR}{d\alpha} = 0$ (done by computer) to find
 $\alpha = 48.5^\circ$ (for $h = 10$ m, $v_0 = 30$ m/s, and $g = 9.81$ m/s²)

The corresponding value of R is

$R = 81.1$ m

So the 10-m plateau is indeed achieved, as assumed (because $R > 50$ m).

Solution For Meriam Dynamics

James F. Doyle



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