

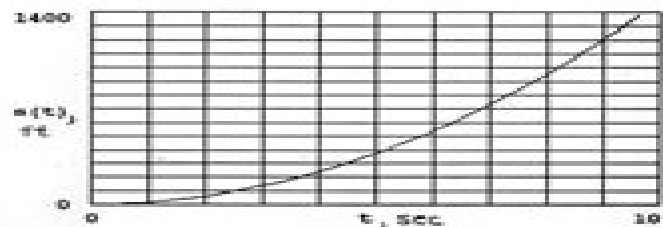
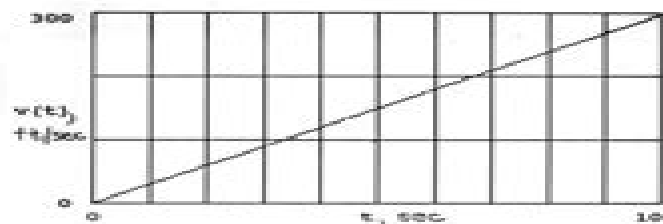
#2/253  $a = \frac{dv}{dt} = c_1 - c_2 v^2$   
 $\int_0^t dt = \int_0^v \frac{dv}{c_1 - c_2 v^2} = \frac{1}{\sqrt{c_1 c_2}} \tanh^{-1} \sqrt{\frac{c_2}{c_1}} v$   
 $t = \frac{1}{\sqrt{c_1 c_2}} \tanh^{-1} \sqrt{\frac{c_2}{c_1}} v$

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/sec<sup>2</sup>,  $t = 9.4$  sec:  
 $1320 = \frac{1}{c_2} \ln (\cosh \sqrt{30 c_2} \cdot 9.4)$   
 $= \frac{1}{c_2} \ln (\cosh 51.5 \sqrt{c_2})$

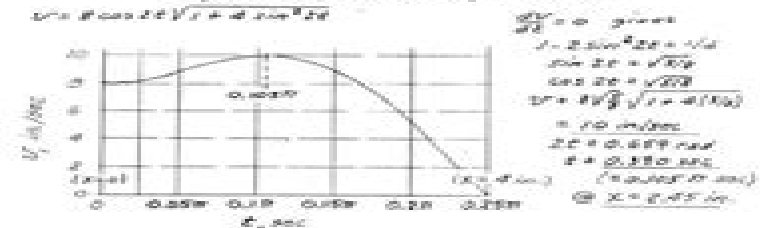
Numerical solution:  $c_2 = 9.28 \text{ (s}^{-1}\text{)} \text{ ft}^{-1}$

(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  $u = g + kv^2$ ,  $du = 2kv dv$ :  $\int_{v_0}^0 -\frac{1}{2k} \frac{du}{u} = h$   
 $h = -\frac{1}{2k} \ln (g + kv^2) \Big|_{v_0}^0 = -\frac{1}{2k} \ln \left( \frac{g}{g + kv_0^2} \right)$   
 $2kh = \ln \left( 1 + \frac{kv_0^2}{g} \right) : 2(528)(9.28) \ln \left( 1 + \frac{2 \tanh^2 \frac{1}{2}}{32.2} \right)$   
Solve numerically to obtain  $k = 3.63 \text{ (s}^{-1}\text{)} \text{ ft}^{-1}$

#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)<sup>2</sup>  
 $v = 8 \cos 2t \sqrt{1 + \sin^2 2t}$



#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  $g = 9.81 \text{ m/s}^2$ )

The corresponding value of  $R$  is

$R = 81.1 \text{ m}$

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

# Solution For Meriam Dynamics

**James L. Meriam, J. M. Henderson**



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