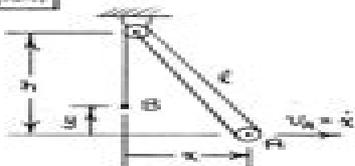
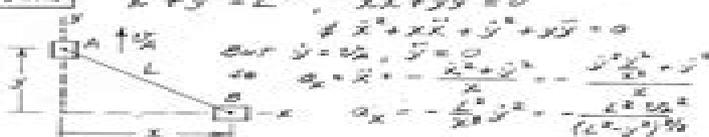


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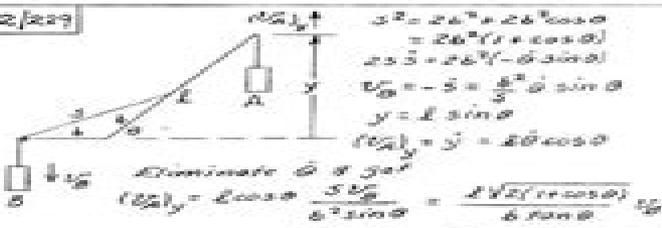
Length of cable is
 $L = h - y + 2\ell + \text{constant} = h - y + 2\sqrt{x^2 + h^2} + \text{const.}$
 $L = 0 = -\dot{y} + \frac{2x\dot{x}}{\sqrt{x^2 + h^2}}$
 Substitute v_A for \dot{x} and v_B for \dot{y} :
 $v_B = \frac{2x}{\sqrt{x^2 + h^2}} v_A$ (4 times as fast as)

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$x^2 + y^2 = L^2$; $x\dot{x} + y\dot{y} = 0$
 $\dot{x}^2 + x\ddot{x} + \dot{y}^2 + y\ddot{y} = 0$
 But $\dot{y} = v_A$, $\dot{y} = 0$
 so $a_x = \dot{x} = -\frac{x\dot{x}}{y} = -\frac{v_A^2 x}{L^2 - x^2}$
 $a_x = -\frac{v_A^2}{2x} = -\frac{v_A^2}{2L \cos \theta}$

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$v^2 = v_A^2 + v_B^2 \cos \theta$
 $= 20^2 (1 + \cos \theta)$
 $25^2 = 20^2 (1 + \sin \theta)$
 $v_B = -5 = \frac{d}{dt} l \sin \theta$
 $y = l \sin \theta$
 $(v_B)_y = \dot{y} = 20 \cos \theta$
 Eliminate θ & $\dot{\theta}$
 $(v_B)_y = 20 \cos \theta \frac{5v_B}{20^2 \sin \theta} = \frac{1\sqrt{2}(1 + \cos \theta)}{8 \tan \theta} v_B$

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Cable length $L = 3(s_B - s_A) + (s_D - s_E)$
 $0 = 3v_B - 4v_A$, $0 = 3a_B - 4a_A$
 $v_A = \frac{3}{4} v_B = \frac{3}{4} (2) = 1.5 \text{ m/s}$
 $a_A = \frac{3}{4} a_B = \frac{3}{4} (3) = 2.25 \text{ m/s}^2$
 $v_{E/A} = v_B - v_A = 2 - (1.5) = 0.5 \text{ m/s}$
 $a_{E/A} = a_B - a_A = 3 - (2.25) = 0.75 \text{ m/s}^2$
 Length of cable between points E and C:
 $L' = (s_B - s_A) + (s_C - s_A) + \text{constants}$
 $0 = v_B - 2v_A + v_C \Rightarrow v_C = 2v_A - v_B$
 or $v_C = 2(1.5) - 2 = 1 \text{ m/s}$
 (All answers are quantities directed to right)

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$\dot{x} = u \cos \theta = 200 \cos 60^\circ = 100 \text{ ft/sec}$
 $\dot{y} = u \sin \theta - gt = 200 \sin 60^\circ - 32.2t = 173.2 - 32.2t$
 At t_1 : $\dot{x} = \dot{y}$: $100 = 173.2 - 32.2t_1$, $t_1 = 2.27 \text{ sec}$
 At t_2 : $\dot{x} = -\dot{y}$: $100 = -173.2 + 32.2t_2$, $t_2 = 7.48 \text{ sec}$

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From A to B $a = 0$
 From B to C $a = a_0 = v^2/r$
 $a_0 = \frac{(90 + 44/20)^2}{1000} = 17.42 \text{ ft/sec}^2$

Abrupt acceleration would cause abrupt forces which would be uncomfortable for passengers. A transition section to change curvature gradually over an interval of track would be required.

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$r = r_0 + b \sin \frac{2\pi t}{\tau}$, $\dot{r} = \frac{2\pi}{\tau} b \cos \frac{2\pi t}{\tau}$
 $\ddot{r} = -\frac{4\pi^2}{\tau^2} b \sin \frac{2\pi t}{\tau}$
 $a_r = \ddot{r} - r\dot{\theta}^2 = -\frac{4\pi^2}{\tau^2} b \sin \frac{2\pi t}{\tau} - r\dot{\theta}^2 = 0$
 $\Rightarrow r = r_0 \frac{1}{1 + \left(\frac{2\pi b}{\tau r_0}\right)^2}$

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$\dot{x} = 20 \text{ mm/s}$, $\ddot{x} = 0$
 $y = x/80$, $\dot{y} = \dot{x}/80$, $\ddot{y} = (\dot{x}^2 + x\ddot{x})/80$
 $v = \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{\dot{x}^2 + (\dot{x}/80)^2} = \dot{x} \sqrt{1 + (1/80)^2}$
 For $x = 80 \text{ mm}$
 $v = 20 \sqrt{1 + (1/80)^2} = 25 \text{ mm/s}$
 $a = \ddot{y} + \dot{x}^2/80 = 20^2/80 = 5 \text{ mm/s}^2$

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$y = 40 \sin \theta$, $v^2 = v_x^2 + v_y^2$; $0 = v_x^2 - 2g(40)$ A to B
 $v_y = \sqrt{2(9.8)(80)} = 15.54 \text{ m/s}$
 $v = 2v_y = 31.08 \text{ m/s}$
 $v^2 = 2v_y^2 + g(40)^2$; $-20 = 15.54^2 - 2g(40)^2$
 $g^2 = 1.1281 - 0.245 = 0$
 $g = 4000 \text{ (10 - 1.245)}$
 $x = 40$, $40 = 40 \cos \theta$, $v_x = 20 \text{ m/s}$
 $a = \sqrt{(v_x)^2 + (v_y)^2} = 17.74 \text{ m/s}^2$
 $\alpha = \tan^{-1} \frac{v_y}{v_x} = 36.87^\circ$; $\alpha_0 = \tan^{-1} \frac{v_y}{v_x} = 36.87^\circ$
 $\theta = \alpha_0 + \alpha = 36.87 + 36.87 = 73.7^\circ$

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