

Initial Max deformation

The maximum force F=kx occurs when x is a maximum with x=0. $V=xT: mgx-xkx^2=0$, $x=\frac{x}{k}$ So F=kx=xmx

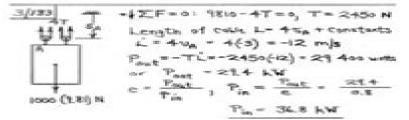
3/130 Let s = distance dawn incline before reversal of director.

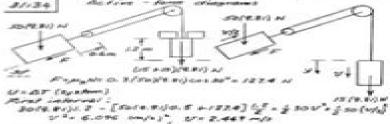
 $U_{x}^{-1} = 100(x)(10+1-5) - 300(10+5-5) \frac{1}{10} = 1046 + 66$ $\Delta T = \pm \frac{350}{32.2} \left[v^{2} - (29)^{2} \right] = 4.66v^{2} - 377 + 6.6$ $U_{x}^{-1} \Delta T : 10+6 = 4.66v^{2} - 377$ v = 17.45 + ft/sec

The initial kinetic energy is positive, regardless of the whichly direction.

3/131 30 A

U = 67 180 (\$ sin 60") - 30 12 (1 - world) = 2 12 (W - 0") U = 160.8, F = 1268 Mpmc 3/132 U= 07; mg(0.8-13 con 60) - g-12(2.3) 8.81(0.20) = g/2(2.9), 2(2.13.9), 2(2.3.59 m/s





15 (2.00 m) 1 (50 2.44 m) 5

Second interval
15 (2.00) y - [50 (2.0) 0.5 + 1224] \$ = 0 - \frac{1}{2} 15 (2.00)
-\frac{1}{2} 50 \left(\frac{1}{2} \right) \frac{1}{2} \right(\frac{1}{2} \right) \frac{1}{2} \frac{1}{2} \right) \frac{1}{2} \frac{1}

3/35
$$U = \Delta T$$
; $-\int_{0}^{\pi} 3 x^{2} r \cos x dx = \pm \frac{4\pi}{32\pi} (0 - V^{2})/2$
 $x^{2} + 30x^{2}$] $= \frac{2\pi}{32\pi} U^{2}$, $U = \frac{1}{100} \cos x$
 $U^{2} - \frac{32}{277} (69 + 480) = 60.82 (1900m)^{2}$, $U = 280 190m$
 $\frac{3}{3} (36) \Theta = \pm m^{-1} \frac{1}{108} = 3.43^{2}$
 $U_{1-2} = \Delta T : U_{4} = mgh = \pm m(V_{4} - V_{4}) = 0$
 $U_{5} = -1400 (181) (200 \sin 3.43^{2})$

Energy last Q = 683 kT

 $\frac{3/197}{P_{out}}$ The gover output of the drivetrain is $\frac{P_{out}}{P_{out}} = F_U = 560\left(\frac{30}{3.6}\right) = 14 sec W$ The gover input to the drivetrain: $\frac{P_{in}}{P_{in}} = \frac{P_{out}}{C} = \frac{14 sec}{2.70} = 2.00 sec W$ So the mater output P = 26 kW

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Lingsheng Yao

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