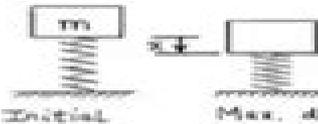
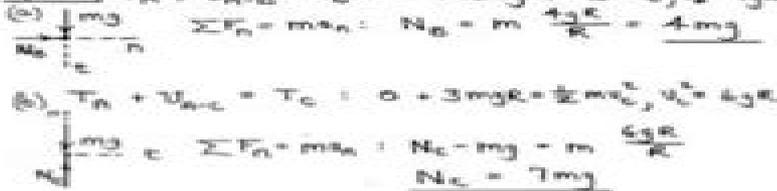


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The maximum force $F = kx$ occurs when x is a maximum with $\dot{x} = 0$.
 $U_1 + \Delta T = mgs - \frac{1}{2} kx^2 = 0, x = \frac{2mg}{k}$
 So $F = kx = 2mg$

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$T_A + U_{A \rightarrow C} = T_C : 0 + 2mgR = \frac{1}{2} m v_C^2, v_C^2 = 4gR$
 $\Sigma F_n = ma_n : N_B = m \frac{v_C^2}{R} = 4mg$
 $T_A + U_{A \rightarrow C} = T_C : 0 + 3mgR = \frac{1}{2} m v_C^2, v_C^2 = 6gR$
 $\Sigma F_n = ma_n : N_C - mg = m \frac{6gR}{R}$
 $N_C = 7mg$

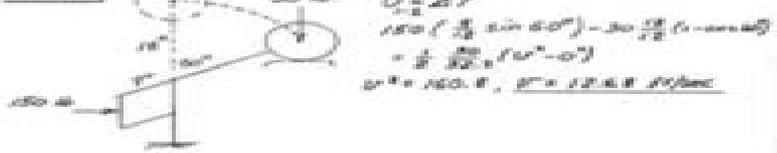
(c) Coll. stopping point E:
 $T_A + U_{A \rightarrow E} = T_E$
 $0 + 2mgR - mg(\frac{1}{2} s) - \mu_k \frac{1}{2} mgs = 0$
 $s = \frac{4R}{1 + \mu_k}$
 (Note: Normal force on incline is)
 $N = mg \cos 30^\circ = \frac{\sqrt{3}}{2} mg$

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Let $s =$ distance down incline before reversal of direction.
 $U_1 = 100(2)(10 + s - s) - 200(10 + s - s) \frac{g}{2} = 1046 \text{ ft}\cdot\text{lb}$
 $\Delta T = \frac{1}{2} \frac{200}{32.2} [v^2 - (27)^2] = 4.66v^2 - 377 \text{ ft}\cdot\text{lb}$
 $U_2 + \Delta T : 1046 = 4.66v^2 - 377$
 $v = 17.45 \text{ ft/sec}$

The initial kinetic energy is positive regardless of the velocity direction.

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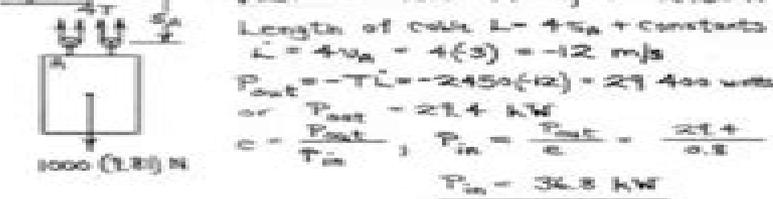


$U_1 + \Delta T$
 $150(\frac{30}{32.2} \sin 60^\circ) - 30(\frac{30}{32.2} \sin 60^\circ)$
 $= \frac{1}{2} \frac{150}{32.2} (v^2 - 0^2)$
 $v^2 = 160.8, v = 12.68 \text{ ft/sec}$

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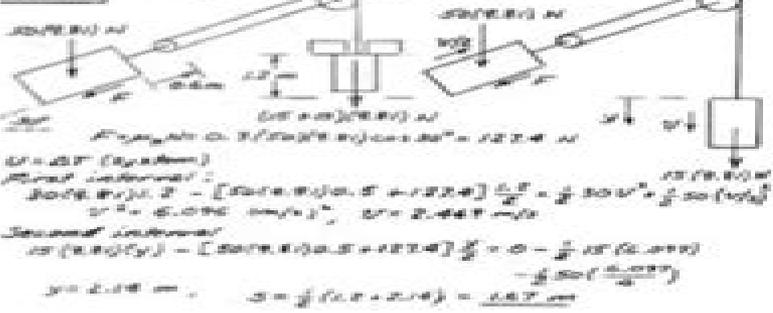
$U_1 + \Delta T : mg(0.8 - 1.2 \cos 60^\circ) = \frac{1}{2} m (v^2 - 0^2)$
 $R.R.(0.20) = \frac{1}{2} (v^2 - 0), v^2 = 12.80, v = 3.57 \text{ m/s}$

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$\Sigma F = 0 : 9810 - 4T = 0, T = 2450 \text{ N}$
 Length of cable $L = 4s_2 + \text{constants}$
 $L = 4v_2 = 4(-3) = -12 \text{ m/s}$
 $P_{out} = -T \dot{L} = -2450(-12) = 29400 \text{ watts}$
 $= P_{in} = 29.4 \text{ kW}$
 $\epsilon = \frac{P_{out}}{P_{in}}; P_{in} = \frac{P_{out}}{\epsilon} = \frac{29.4}{0.8}$
 $P_{in} = 36.8 \text{ kW}$

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Active force diagrams
 300 lb and 500 lb weights are shown. The 500 lb weight is moving up with velocity v .
 $U_1 + \Delta T$ (system)
 First interval:
 $300(0.5) - [500(0.5) + 1224] \frac{g}{2} = \frac{1}{2} (300) (v^2 - 0^2)$
 $v^2 = 0.096 \text{ (m/s)}^2, v = 0.31 \text{ m/s}$
 Second interval:
 $500(2.0) - [500(2.0) + 1224] \frac{g}{2} = 0 - \frac{1}{2} (500) (v^2 - 0^2)$
 $v = 2.18 \text{ m/s}, s = \frac{1}{2} (0 + 2.18) = 1.87 \text{ m}$

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$U_1 + \Delta T : -\int_0^s (3x^2 + 60x) dx = \frac{1}{2} \frac{200}{32.2} (0 - v^2)$
 $x^3 + 30x^2 \Big|_0^s = \frac{500}{32.2} v^2, v \text{ in ft/sec.}$
 $v^2 = \frac{32.2}{500} (60 + 480) = 62.82 \text{ (ft/sec)}^2, v = 25.07 \text{ ft/sec}$

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$\Theta = \tan^{-1} \frac{6}{100} = 3.43^\circ$
 $U_1 + \Delta T : U_2 + mgh = \frac{1}{2} m (v_2^2 - v_1^2)$
 $U_2 = -1400(1.8)(200 \sin 3.43^\circ) + \frac{1}{2} 1400 \left[\left(\frac{200}{32.2}\right)^2 - \left(\frac{100}{32.2}\right)^2 \right]$
 $= -683000 \text{ J} \text{ or } -683 \text{ kJ}$
 Energy lost $\Theta = 683 \text{ kJ}$

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The power output of the drivetrain is
 $P_{out} = Fv = 560 \left(\frac{30}{3.14}\right) = 14000 \text{ W}$
 The power input to the drivetrain:
 $P_{in} = \frac{P_{out}}{\epsilon} = \frac{14000}{0.70} = 20000 \text{ W}$
 So the motor output $P = 20 \text{ kW}$

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