

3/117  $P = \frac{Wh}{\Delta t}$

or  $P = \frac{120(9.8)}{5} / 550 = 0.393 \text{ hp}$

Conversion:  $h = 7 \text{ ft} \left( \frac{0.3048 \text{ m}}{1 \text{ ft}} \right) = 2.14 \text{ m}$

$W = 120 \text{ lb} \left( \frac{4.4482 \text{ N}}{1 \text{ lb}} \right) = 534 \text{ N}$

$P = \frac{Wh}{\Delta t} = \frac{534(2.14)}{5} = 233 \text{ W} \approx 0.315 \text{ hp}$

Check:  $0.315 \text{ hp} \left( \frac{745.7 \text{ W}}{1 \text{ hp}} \right) = 235 \text{ W} \checkmark$

3/118  $v_B = 5 \frac{5280}{3600} = 7.33 \text{ ft/sec}$

$v_B^2 = 2as$ ;  $a = \frac{7.33^2}{2(50)} = 0.538 \frac{\text{ft}}{\text{sec}^2}$

$\theta = \tan^{-1}(0.1) = 5.71^\circ$

$\sum F = ma$ ;  $F - 90 \sin 5.71^\circ = \frac{90}{32.2}(0.538)$

$F = 10.46 \text{ lb}$

$P = Fv = 10.46(7.33) = 76.7 \frac{\text{ft-lb}}{\text{sec}}$

or  $P = 76.7 / 550 = 0.1394 \text{ hp}$

3/119 Net power required =  $30(1400/24) / 12,000$

$= 3.08 \text{ hp}$

Mechanical efficiency =  $\frac{\text{Power required}}{\text{Power supplied}} = \frac{3.08}{4.00} = 0.767$

3/120  $U_2 = 0T$ ;  $15(18+2) = \frac{1}{2} 80(2)^2 = \frac{1}{2} \frac{80}{32.2} v^2$

$300 - 160 = 2.778 v^2$ ,  $v = 10.15 \text{ ft/sec}$

$v^2 = 50.0$ ,  $v = 7.07 \text{ ft/sec}$

3/121  $\theta = \tan^{-1} 0.1$ ,  $\sin \theta = 0.0995$

$\sum F_x = ma_x$  where  $U = 50 \text{ ft}$

$F - mg \sin \theta = m \frac{v^2}{R}$

$P = Fv = mgv \sin \theta + \frac{mv^3}{R}$

$= 1500(9.81) \frac{50 \sin 0.0995}{3600} + \frac{1500(50 \text{ mm/sec})^3}{2(1 \text{ m})}$

$= 20.136 + 10.074 = 30.210 \text{ W}$

or  $P = 40.8 \text{ kW}$

3/122 For  $k = 75 \text{ mm}$ ,  $U = 0T$

$\frac{1}{2} (0.075) R_{max} = \frac{1}{2} (0.25)(600)^2$ ,  $R_{max} = 1.2 \text{ mm}$

For  $k = 25 \text{ mm}$ ,  $R = \frac{600}{25}(1.2) = 0.4 \text{ mm}$  or  $0.4(10^{-3}) \text{ m}$

$U = 0T$ ;  $\frac{1}{2} (0.025)(0.4)^2 = \frac{1}{2} (0.25)(600^2 - v^2)$

$v^2 = 320(10^3) \text{ (m/s)}^2$ ,  $v = 566 \text{ m/s}$

3/123 Power output = rate of doing work

$= 300(9.81)(2) = 5886 \text{ J/s}$

$= 7.94 \text{ kW}$

$= 1.063 \text{ hp}$

Efficiency  $\eta = \frac{\text{Power output}}{\text{Power input}} = \frac{1.063}{1.20} = 0.886$

3/124  $F_g$  gravitational force =  $Gm_1 m_2 / r^2 = g R^2 m / r^2$

$U = 0T$   
 $\int_0^R F(-dr) = \frac{1}{2} m v^2 = 0$   
 $-\int_0^R \frac{g R^2 m}{r^2} dr = \frac{1}{2} m v^2$ ,  $-g R^2 \left( -\frac{1}{r} \right)_0^R = \frac{1}{2} v^2$   
 $g R^2 \left( \frac{1}{0} - \frac{1}{R} \right) = \frac{1}{2} v^2$ ,  $v = R \sqrt{2g \left( \frac{1}{0} - \frac{1}{R} \right)}$

$v = 6.371 \sqrt{\frac{2(9.80665)}{1000} \left( \frac{1}{0.571+500-1000} - \frac{1}{0.571+500} \right)}$   
 $= 6.371 \sqrt{2.2237(10^{-3})} = 1.307 \text{ km/h}$

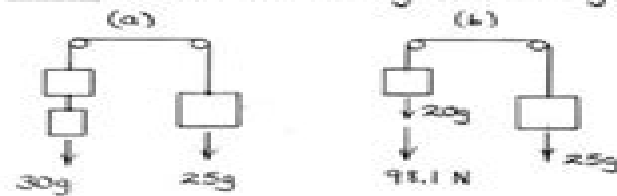
3/125  $U_2 = 0.5T$ ,  $\theta = \sin^{-1} \frac{3}{10} = 1.66^\circ$

$AC = 150 \text{ m}$ ,  $m = 68 \text{ kg}$ ,  $F = 32 \text{ kN}$ ,  $U_2 = 0T$

$U_2 = 0T$ ;  $68(10^3)(9.81)(3) - 32(10^3)x = \frac{1}{2} 68(10^3)(3^2 - 0.5^2)$

$2001 - 32x = 297.5$ ,  $x = 53.2 \text{ m}$

3/126 Active-force diagrams for system:



$U = 0T$  for system:

(a)  $(30-25)(9.81)2 = \frac{1}{2} (30+25)v^2$

$v = 1.889 \text{ m/s}$

(b)  $[(20-25)(9.81) + 98.1]2 = \frac{1}{2} (20+25)v^2$

$v = 2.09 \text{ m/s}$

3/127  $mg = 981 \text{ N}$ ,  $AB = 10(120)^{1/2} = 62.9 \text{ m}$

$U_2 = 0T = 0$  since  $E = 0$

$1500(62.9) = 981(16.08 + \frac{1}{2}x)$

$5 = 2(94248 - 15171)/981$   
 $= 160.0 \text{ m}$

$120(1 - \cos 30^\circ) = 16.08 \text{ m}$

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**Padhraic Smyth**



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