

NPHY 111 Mid-semester test Memo

1.

(a) We first multiply the vertical axis by the mass, so that it becomes a graph of the applied force. Now, adding the triangular and rectangular "areas" in the graph (for $0 \leq x \leq 4$) gives 42 J for the work done. [2]

(b) Counting the "areas" under the axis as negative contributions, we find (for $0 \leq x \leq 7$) the work to be 30 J at $x = 7.0$ m. [2]

(c) Now, using the result of part (b) and Eq. 7-10 (along with Eq. 7-1) we find the speed is 5.5 m/s at $x = 7.0$ m. Although it has experienced some deceleration during the $0 \leq x \leq 7$ interval, its velocity vector still points in the $+x$ direction. [2]

2.

. Let the tensions on the strings connecting m_2 and m_3 be T_{23} , and that connecting m_2 and m_1 be T_{12} , respectively. Applying Newton's second law (and Eq. 6-2, with $F_N = m_2g$ in this case) to the system we have

$$\begin{aligned} m_3g - T_{23} &= m_3a \\ T_{23} - \mu_k m_2g - T_{12} &= m_2a \\ T_{12} - m_1g &= m_1a \end{aligned} \quad [2]$$

Adding up the three equations and using $m_1 = 3M$, $m_2 = m_3 = 2M$, we obtain

$$[1] \quad 2Mg - 2\mu_k Mg - Mg = 5Ma.$$

With $a = 0.500$ m/s² this yields $\mu_k = 0.372$. Thus, the coefficient of kinetic friction is roughly $\mu_k = 0.37$. [1]

3.

$$\theta = \tan^{-1}\left(\frac{v^2}{gR}\right)$$

with $v = 60(1000/3600) = 17$ m/s and $R = 200$ m. The banking angle is therefore $\theta = 8.1^\circ$. Now we consider a vehicle taking this banked curve at $v' = 40(1000/3600) = 11$ m/s. Its [2]

(horizontal) acceleration is $a' = v'^2/R$, which has components parallel the incline and perpendicular to it:

$$\begin{aligned} a_{\parallel} &= a' \cos \theta = \frac{v'^2 \cos \theta}{R} \\ a_{\perp} &= a' \sin \theta = \frac{v'^2 \sin \theta}{R}. \end{aligned} \quad [1]$$

These enter Newton's second law as follows (choosing downhill as the $+x$ direction and away-from-incline as $+y$):

$$\begin{aligned} mg \sin \theta - f_s &= ma_{\parallel} \\ F_N - mg \cos \theta &= ma_{\perp} \end{aligned} \quad [1]$$

and we are led to

$$\frac{f_s}{F_N} = \frac{mg \sin \theta - mv'^2 \cos \theta / R}{mg \cos \theta + mv'^2 \sin \theta / R} \quad [1]$$

We cancel the mass and plug in, obtaining $f_s/F_N = 0.078$. The problem implies we should set $f_s = f_{s,max}$ so that, by Eq. 6-1, we have $\mu_k = 0.078$. [2]

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