

### PROBLEM 14.40

A 40-lb block  $B$  is suspended from a 6-ft cord attached to a 60-lb cart  $A$ , which may roll freely on a frictionless, horizontal track. If the system is released from rest in the position shown, determine the velocities of  $A$  and  $B$  as  $B$  passes directly under  $A$ .

### SOLUTION

Conservation of linear momentum:

Since block and cart are initially at rest,

$$\mathbf{L}_0 = 0$$

Thus, as  $B$  passes under  $A$ ,

$$\mathbf{L} = m_A \mathbf{v}_A + m_B \mathbf{v}_B = 0$$

$$\rightarrow +, m_A v_A + m_B v_B = 0$$

$$v_A = -\frac{m_B}{m_A} v_B$$



Conservation of energy:

Initially,

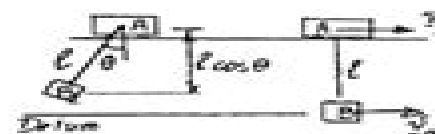
$$T_0 = 0$$

$$V_0 = m_B g l (1 - \cos \theta)$$

As  $B$  passes under  $A$ ,

$$T = \frac{1}{2} m_A v_A^2 + \frac{1}{2} m_B v_B^2$$

$$V = 0$$



Thus,

$$T_0 + V_0 = T + V: m_B g l (1 - \cos \theta) = \frac{1}{2} m_A v_A^2 + \frac{1}{2} m_B v_B^2$$

Substituting for  $v_A$  from (1) and multiplying by 2:

$$\begin{aligned} 2m_B g l (1 - \cos \theta) &= m_A \left( \frac{m_B^2}{m_A^2} v_B^2 \right) + m_B v_B^2 \\ &= \left( \frac{m_B^2}{m_A} + m_B \right) v_B^2 = m_B \frac{m_B + m_A}{m_A} v_B^2 \\ v_B &= \sqrt{\frac{2m_A}{m_A + m_B} g l (1 - \cos \theta)} \end{aligned} \quad (2)$$

# Vector 12 Supplement Solution Manual

**Thomas Griffiths**



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