

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, borizontal 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.

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

$$+ m_A v_A + m_B v_B = 0$$

$$v_d = -\frac{m_B}{m_A}v_B \qquad (1)$$

Conservation of energy:

Initially.

$$T_{\alpha} = 0$$

$$V_0 = m_0 g I (1 - \cos \theta)$$

As B passes under A,

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

$$F' = 0$$

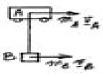
Thus.

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

Substituting for v_{ϵ} from (1) and multiplying by 2:

$$2m_B gl(1 - \cos \theta) = m_d \left(\frac{m_B^2}{m_A^2} v_B^2\right) + m_B v_B^2$$

 $= \left(\frac{m_B^2}{m_A} + m_B\right) v_B^2 = m_B \frac{m_B + m_A}{m_A} v_B^2$
 $v_B = \sqrt{\frac{2m_B}{m_A + m_B}} gl(1 - \cos \theta)$ (2)



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Vector Mechanics Solution Manual 9th

Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller

Vector Mechanics Solution Manual 9th:

<u>Dynamics - Formulas and Problems</u> Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics *Canadiana*, 1982

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Applied Mechanics Reviews ,1948

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Paperbound Books in Print ,1992

Rider Papers on Euclid (books I. and II.) Rupert Deakin,1891

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The

Journal of Engineering Mechanics ,1999

International Books

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web frida kahlo was a world famous mexican artist and her art and artefacts live on through the frida kahlo museum or the blue house while people can find her work worldwide it feels most at home at la casa azul the original name of the blue house <u>frida kahlo wikipedia</u> - Jan 28 2022

web kahlo stated that she was born at the family home la casa azul the blue house but according to the official birth registry the birth took place at the nearby home of her maternal grandmother kahlo s parents were photographer guillermo kahlo 1871 1941 and matilde calderón y gonzález 1876 1932 and they were thirty six and thirty

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