

Continue your response to **QUESTION 1** on this page.

At time  $t = 0$ , Block A is located at position  $x = x_0$  and is released from rest. After the block is released, the following occurs.

- At time  $t = t_1$ , Block A is at  $x = x_1$  after traveling a distance  $x_c$ . Block A moves with speed  $v_1$  and the spring is at its equilibrium position.
- At time  $t = t_2$ , the left side of Block A is at  $x = x_2$  after passing through a distance  $D$  across the region with nonnegligible friction.
- At time  $t = t_3$ , Block A is at  $x = x_3$  and Block A collides with and sticks to Block B.

(a) For parts (a)(i) and (a)(ii), express your answer in terms of  $m$ ,  $k$ ,  $D$ ,  $\mu$ ,  $x_c$ , and physical constants, as appropriate.

- i. Derive an expression for the speed  $v$  of Block A at time  $t_1$ .

$$\frac{1}{2} k x_c^2 = \frac{1}{2} m v^2$$

$$v^2 = \frac{k x_c^2}{m}$$

$$v = x_c \cdot \sqrt{\frac{k}{m}} \quad \checkmark$$

- ii. Derive an expression for the speed  $v_{A,B}$  of the two-block system immediately after the collision at time  $t_3$ .

$$v_f^2 = v_i^2 + 2aD$$

$$a = \frac{F}{m}$$

$$= \frac{\mu \cdot mg}{m} = \mu \cdot g$$

$$v_f^2 = \left( \frac{k x_c^2}{m} \right) + 2(-\mu g) D$$

$$v_f = \sqrt{\frac{k x_c^2}{m} - 2\mu g D}$$

$$m_A \cdot v_f = 4m \cdot v_{A,B}$$

$$v_{A,B} = \frac{1}{4} v_f$$

$$= \frac{1}{4} \sqrt{\frac{k x_c^2}{m} - 2\mu g D} \quad \checkmark$$

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