

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 , μ , 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 .

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

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

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

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

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

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

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

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

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Yijin Wang



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