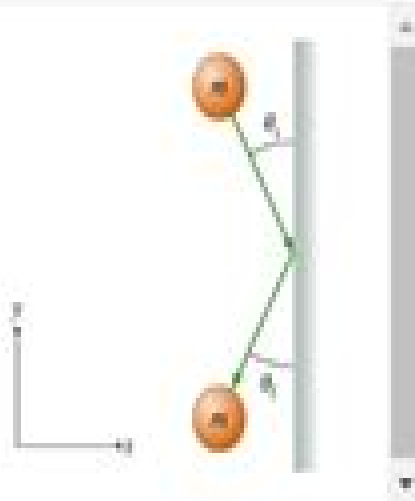


A ball of mass m moving with velocity $\vec{v}_i$ strikes a vertical wall as shown in [Figure 2](#). The angle between the ball's initial velocity vector and the wall is θ_i as shown on the diagram, which depicts the situation as seen from above. The duration of the collision between the ball and the wall is Δt , and this collision is completely elastic. Friction is negligible, so the ball does not start spinning. In this idealized collision, the force exerted on the ball by the wall is parallel to the x axis.

Figure

1 of 1



Express your answer in terms of some or all of the variables m , v_i , θ_i , Δt .

View Available Hint(s)

$$F_x = F_i$$

Submit

Previous Answers

✓ Correct

Part B

What is the magnitude F of the average force exerted on the ball by the wall?

Express your answer in terms of some or all of the variables m , v_i , θ_i , Δt .

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$$F = \frac{2mv_i \sin(\theta_i)}{\Delta t}$$

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Mastering Physics Solutions Ch 8

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