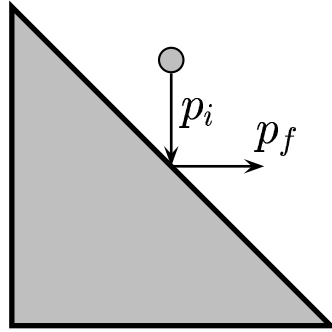


Consider the deflection of a ball by a 45° incline. The ball bounces off horizontally. Assume that it is an elastic collision.



Determine the impulse vector delivered by the incline to the ball.

- A) direction \nearrow and $\Delta p = p_i$.
- B) direction \swarrow and $\Delta p = p_i$.
- C) direction \nearrow and $\Delta p = \sqrt{2} p_i$.
- D) direction \swarrow and $\Delta p = \sqrt{2} p_i$.

From the sketch, one sees the answer.
Answer **C**.