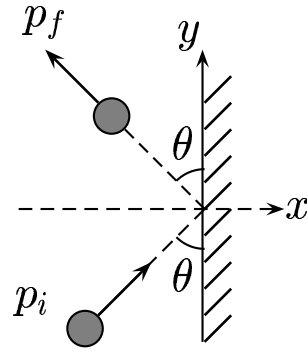


A steel ball strikes a wall with an initial momentum  $p_i$  at an angle  $\theta$  with the surface. It bounces off with the momentum  $p_f$  at the same speed and angle.



Determine the direction of the impulse vector  $I = P_f - P_i$ . Choose one:

- A) positive y.
- B) 2nd quadrant.
- C) negative x.
- D) 3rd quadrant.

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