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.
From the sketch one sees the answer.

Answer C.

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