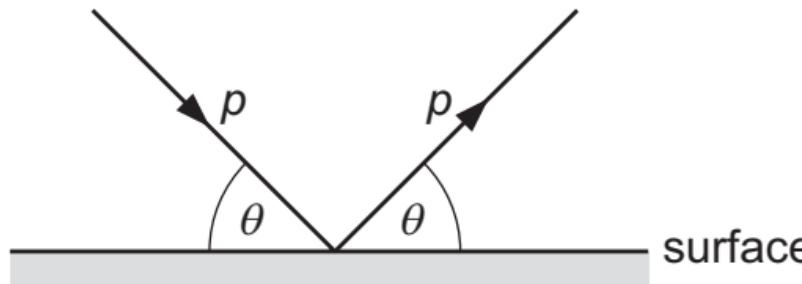


- 8 A ball strikes a horizontal surface with momentum p at an angle θ to the surface, as shown.



The ball rebounds with the same magnitude of momentum at an angle θ to the surface.

The ball is in contact with the surface for time t .

What is the magnitude of the average resultant force acting on the ball during the collision?

A zero

B $\frac{2p}{t}$

C $\frac{2pcos\theta}{t}$

D $\frac{2psin\theta}{t}$