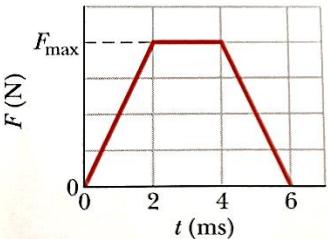


- 9 The graph below shows an approximate plot of force magnitude  $F$  versus time  $t$  during the collision of a 58 g tennis ball with a wall. The initial velocity of the ball is  $34 \text{ m s}^{-1}$  perpendicular to the wall. It rebounds directly back with approximately the same speed, also perpendicular to the wall. What is  $F_{\max}$ , the maximum magnitude of the force on the ball from the wall during the collision?



- A      490 N      B      990 N      C      2000 N      D      3900 N