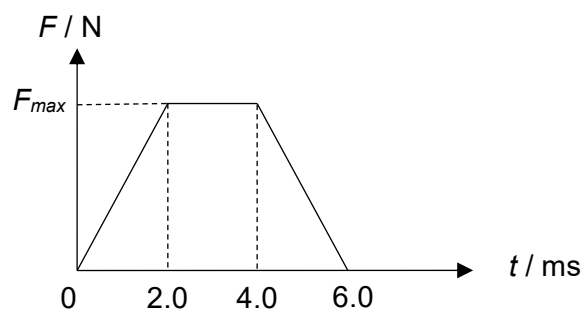**4** A 58 g tennis ball hits a wall perpendicularly with a speed of 34 m s^{-1} and rebounded perpendicularly with the same speed. The figure shows the variation with time of the force experienced by the ball as it collides with the wall.

What is F_{max}, the maximum force acting on the ball during the collision?

A 0.49 N **B** 0.99 N **C** 490 N **D** 990 N