

Mathematics Questions by Topics

Motion and Force

Question 9

Source: K19SM2Q14

Question 9

A particle of mass 3 kg travels in a straight line with velocity $v \text{ ms}^{-1}$ when its displacement is x metres, where $v = \sqrt{4x^2 + 9}$. The force in newtons acting on the particle when $x = 2$ is

- A. 24
- B. 12
- C. 8
- D. 4
- E. $\frac{24}{5}$