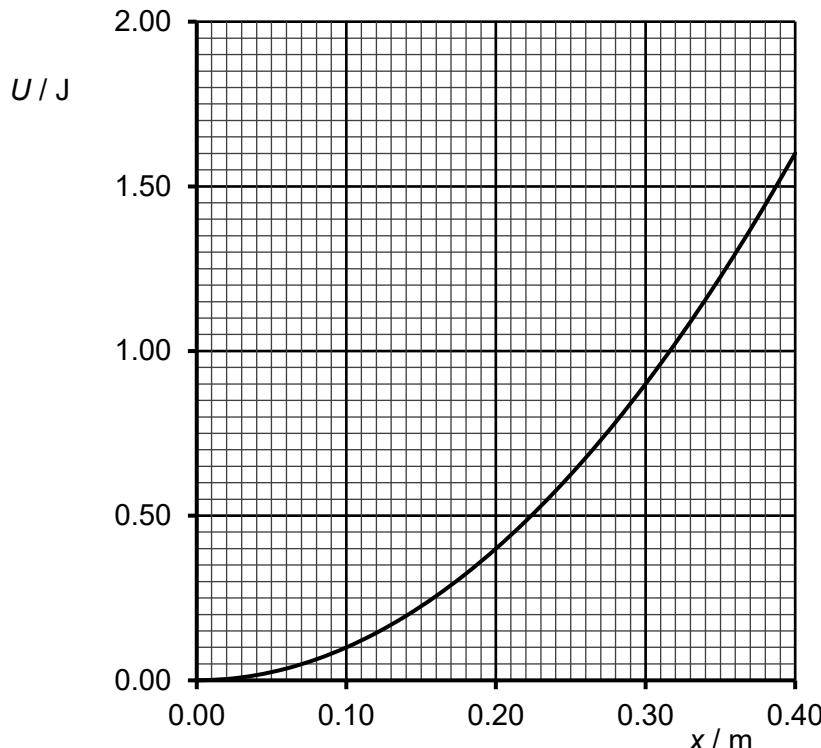


- 6 The variation with displacement  $x$  of the potential energy  $U$  of a body is shown.



What is the magnitude of the force acting on the body at  $x = 0.30 \text{ m}$ ?

A  $0.090 \text{ N}$

B  $0.17 \text{ N}$

C  $3.0 \text{ N}$

D  $6.0 \text{ N}$

- 7 A driving force of  $250 \text{ N}$  is needed for a car of mass  $900 \text{ kg}$  to travel along a level road at a