

- 7 The potential energy of a body when it is at point P a distance x from a reference point O is given by $U = kx^2$, where k is a constant.

What is the force acting on the body when it is at P?

- A magnitude of $2kx$ from O to P
- B magnitude of kx from O to P
- C magnitude of kx from P to O
- D magnitude of $2kx$ from P to O

- 8 A small sphere is set into circular motion in a horizontal plane within a smooth cone as shown