

- 9** Which of the following statements is correct for a particle moving in a vertical circle with constant angular velocity?
- A** The centripetal force acting on the particle is constant but its kinetic energy varies.
  - B** The kinetic energy of the particle is constant but the centripetal force acting on it varies.
  - C** Both the kinetic energy of the particle and the centripetal force acting on it are constant.
  - D** Both the kinetic energy of the particle and the centripetal force acting on it vary.