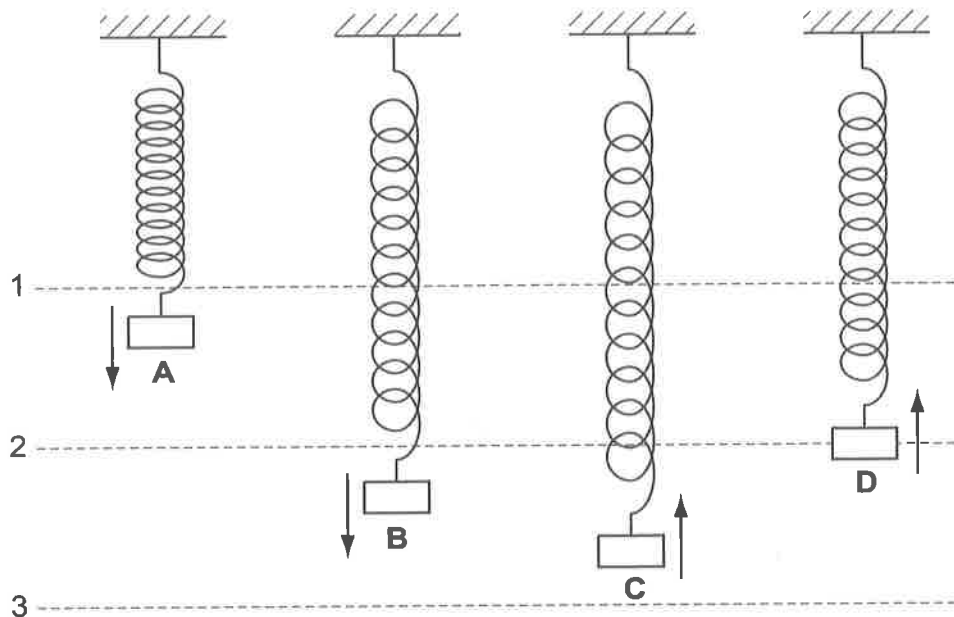


16 The diagram shows four points in the cycle of a mass oscillating on a vertical spring.

The horizontal lines 1 and 3 show the limits of the motion of the mass. Line 2 shows where the mass has maximum speed. The arrows indicate the direction of the motion.

At which point is the mass gaining kinetic energy and gravitational potential energy and the spring losing elastic potential energy?



17 A small electric motor is 20% efficient. Its input power is 9.6 W when it is lifting a mass of 0.50 kg