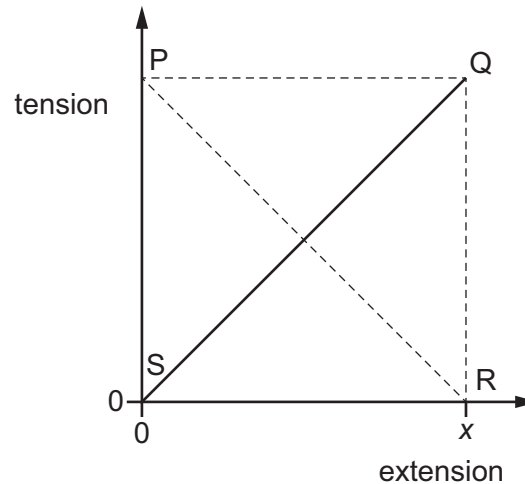
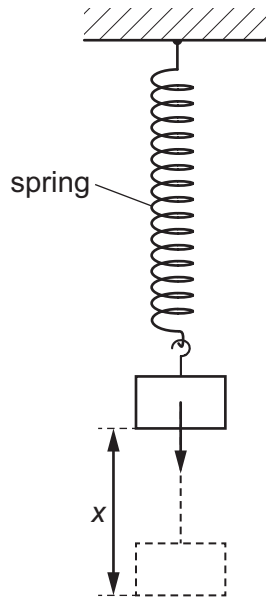


- 16** A spring is attached at one end to a fixed point. A mass is then hung from the other end of the spring. The spring has extension x when the system is in equilibrium.



The variation of the tension in the spring with its extension is shown on the graph.

Which statement is correct?

- A** Area SPR represents the energy stored in the spring which cannot be recovered.
- B** Area SPQR represents the energy stored in the spring which can be recovered.
- C** Area SPQ represents the loss of gravitational potential energy of the mass due to the extension of the spring.
- D** Area SQR represents the elastic potential energy stored in the spring.