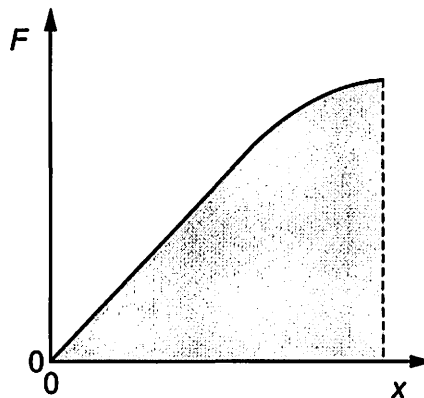
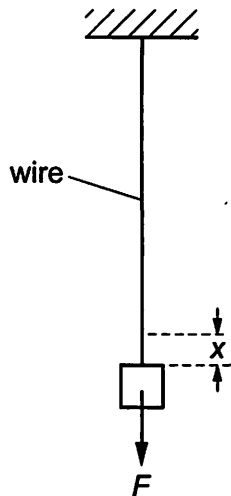


- 11 A wire, fixed at its upper end, is subjected to an increasing load F by increasing the mass attached to its lower end. A graph of F against the extension x of the wire is shown.



The wire is extended so that it is permanently deformed.

What does the shaded area on the graph represent?

- A the amount of elastic potential energy stored in the wire
- B the amount of heat produced in the wire
- C the loss of gravitational potential energy of the mass
- D the work done by F on the wire

- 12 A uniform, small-diameter wire is held vertically, as shown. The wire measures