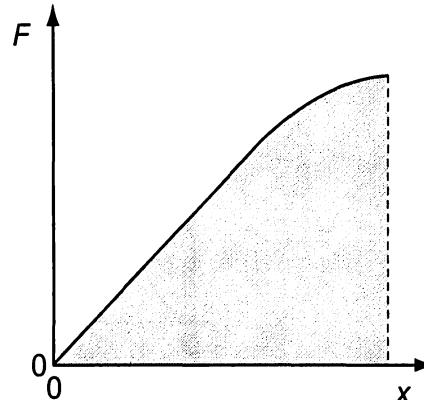
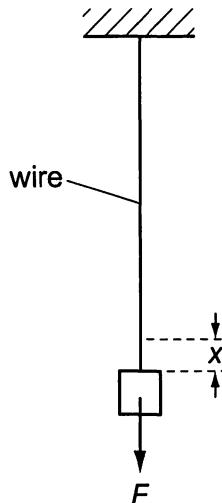


- 9 A wire, fixed at its upper end, is subjected to an increasing load  $F$  by increasing the mass attached to its lower end. A graph of  $F$  against the extension  $x$  of the wire is shown.



The wire is stretched beyond its elastic limit.

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