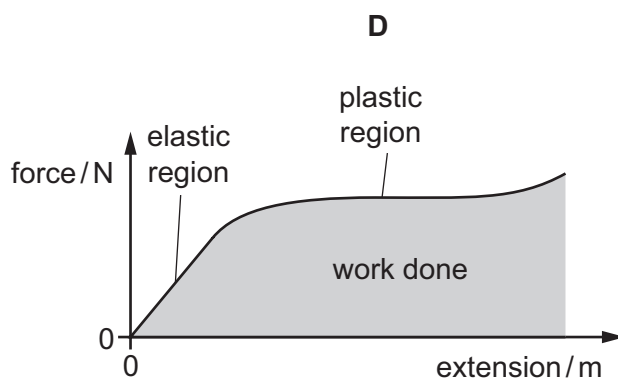
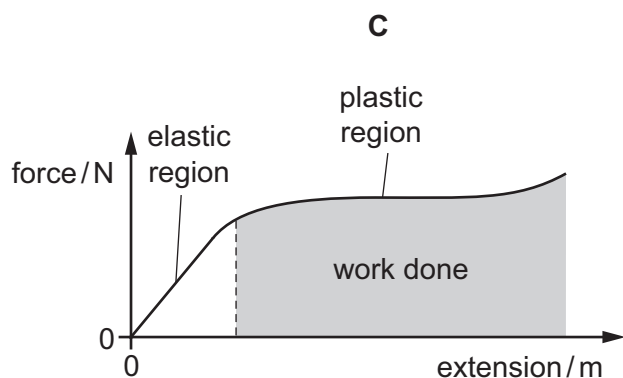
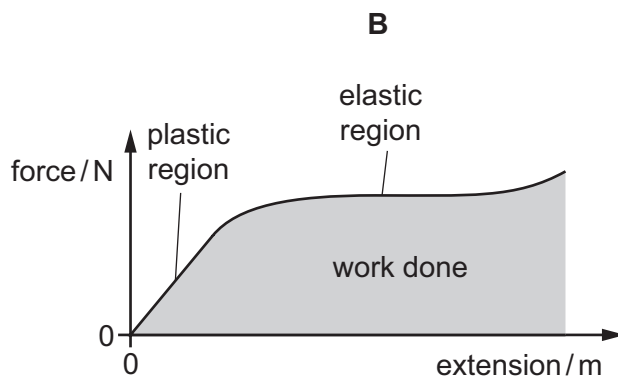
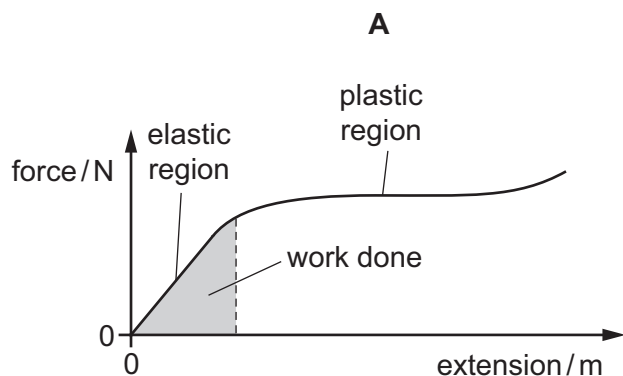


21 A metal wire is stretched to breaking point and the force-extension graph is plotted.

Which graph is correctly labelled with the elastic region, the plastic region and the area representing the work done to stretch the wire until it breaks?



22 A copper wire hangs vertically from a fixed point. A load is attached to the lower end of the wire producing an extension x . The wire obeys Hooke's law.

Which single change gives an extension $2x$?

- A** Halve the cross-sectional area of the wire.
- B** Halve the diameter of the wire.
- C** Halve the length of the wire.
- D** Halve the load on the wire.