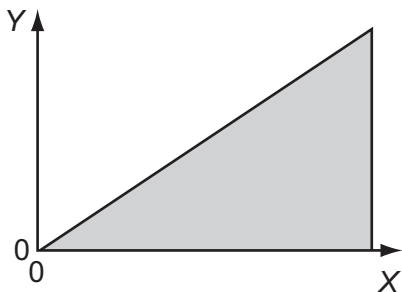


**22** The graph shown was plotted in an experiment on a metal wire.



The shaded area represents the total strain energy stored in stretching the wire.

How should the axes be labelled?

	Y	X
<b>A</b>	force	extension
<b>B</b>	mass	extension
<b>C</b>	strain	energy
<b>D</b>	stress	strain

**23** A metal wire is stretched by a force of  $10\text{ N}$  and its length increases by  $10\text{ mm}$ .