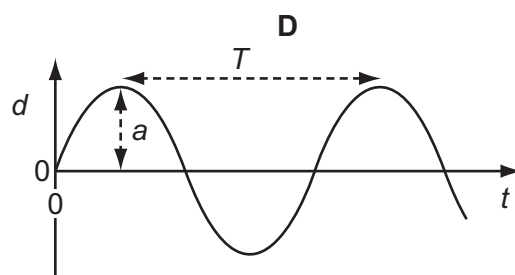
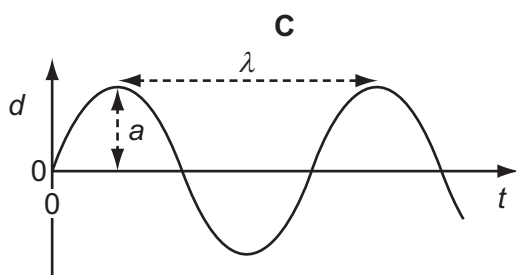
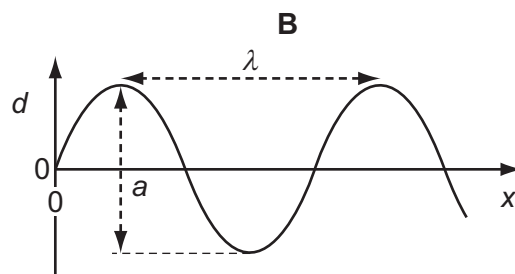
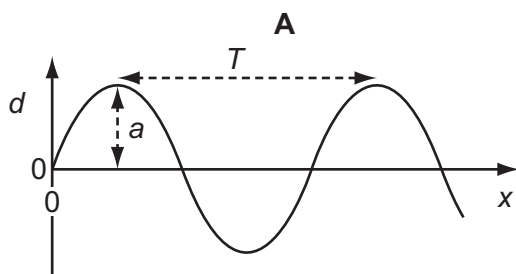


- 22** The four graphs represent a progressive wave on a stretched string. Graphs **A** and **B** show how the displacement  $d$  varies with distance  $x$  along the string at one instant. Graphs **C** and **D** show how the displacement  $d$  varies with time  $t$  at a particular value of  $x$ .

The labels on the graphs are intended to show the wavelength  $\lambda$ , the period  $T$  and the amplitude  $a$  of the wave, but only one graph is correctly labelled.

Which graph is correctly labelled?



**Space for working**