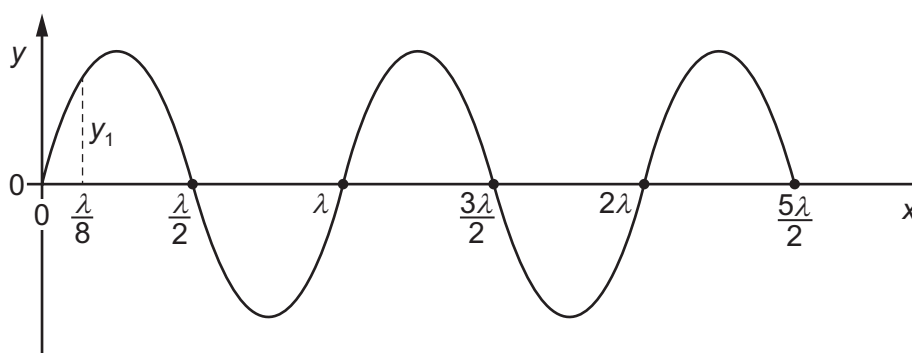


21 What is an example of plastic deformation?

- A** A rubber ball is momentarily compressed every time it hits the ground.
- B** A spoon stirring some coffee in a ceramic mug hits its surface and makes a clinking sound.
- C** A toolbox is left on a horizontal plank. When the toolbox is removed, the plank is no longer straight.
- D** The spring in some bathroom weighing scales is compressed by a person standing on the scales.

22 A transverse progressive wave of wavelength λ is set up on a stretched string. The graph shows the variation of displacement y with distance x at a particular instant of time. The wave has displacement $+y_1$ at distance $x = \frac{\lambda}{8}$.



What are the next two values of x where the displacement y is again equal to $+y_1$?

- A** $\frac{3\lambda}{8}$ and $\frac{5\lambda}{8}$
- B** $\frac{3\lambda}{8}$ and $\frac{9\lambda}{8}$
- C** $\frac{5\lambda}{8}$ and $\frac{9\lambda}{8}$
- D** $\frac{9\lambda}{8}$ and $\frac{17\lambda}{8}$