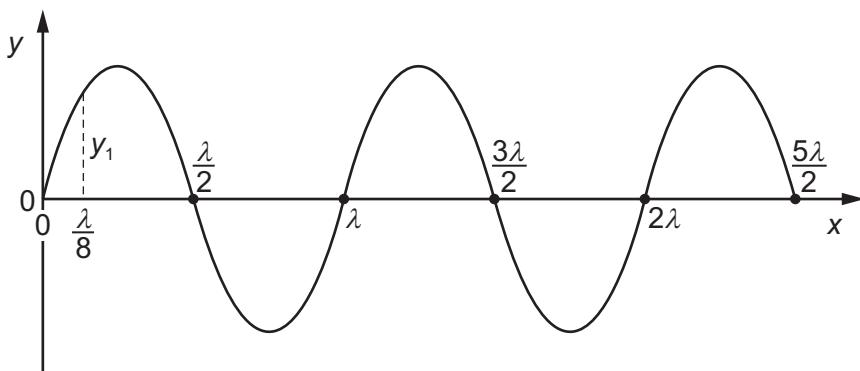


- 24 A transverse progressive wave of wavelength λ is set up on a stretched string. The graph shows the variation of displacement y with distance x at a particular instant of time. The displacement where distance $x = \frac{\lambda}{8}$ is y_1 .



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 $\frac{17\lambda}{8}$

- 25 A man standing next to a stationary train hears sound of frequency 400 Hz emitted from the