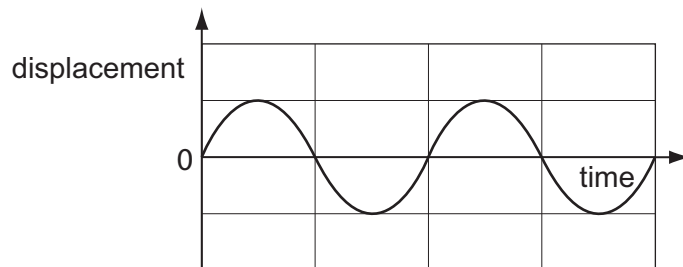


23 Which phenomenon is associated with transverse waves but **not** longitudinal waves?

- A polarisation
- B reflection
- C refraction
- D superposition

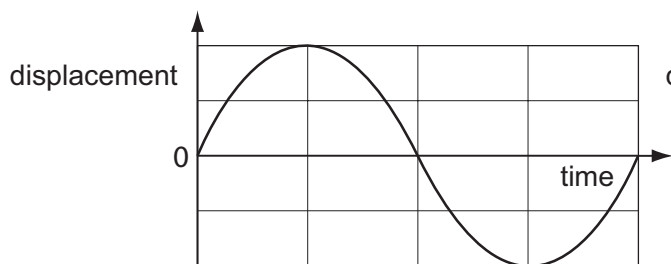
24 A displacement-time graph is shown for a particular wave.



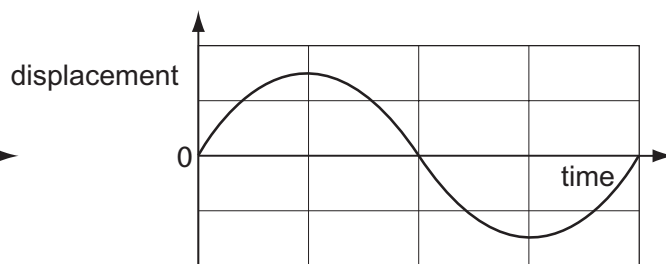
A second wave of similar type has twice the intensity and half the frequency.

When drawn on the same axes, what would the second wave look like?

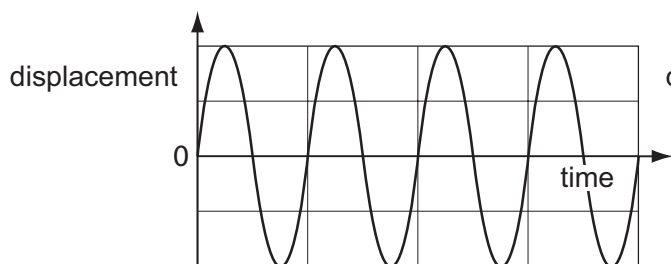
A



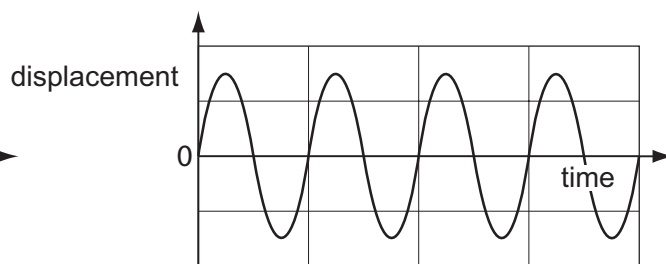
B



C



D



25 The frequency of a certain wave is 500 Hz and its speed is 340 m s⁻¹.

What is the phase difference between the motions of two points on the wave 0.17 m apart?

- A $\frac{\pi}{4}$ rad
- B $\frac{\pi}{2}$ rad
- C $\frac{3\pi}{4}$ rad
- D π rad