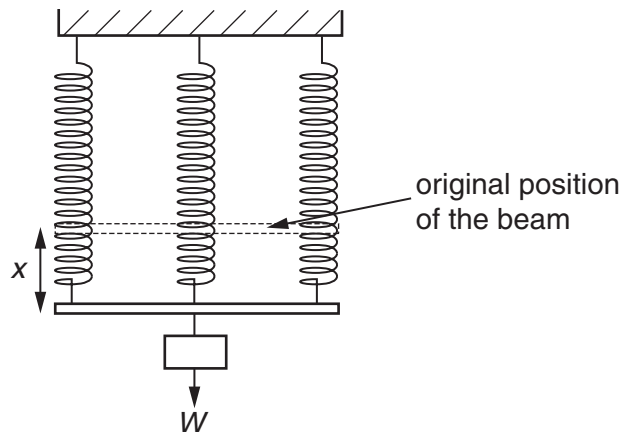


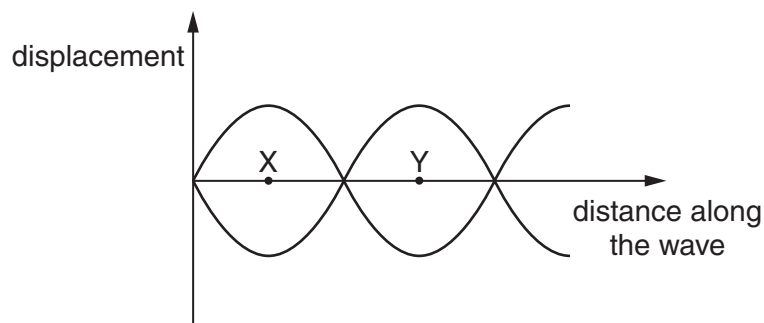
- 22 A beam, the weight of which may be neglected, is supported by three identical springs. When a weight W is hung from the middle of the beam, the extension of each spring is x .



The middle spring and the weight are removed.

What is the extension when a weight of $2W$ is hung from the middle of the beam?

- A $\frac{3x}{2}$ B $\frac{4x}{3}$ C $2x$ D $3x$
- 23 Which of the following is true for all transverse waves?
- A They are all electromagnetic.
B They can all be polarised.
C They can all travel through a vacuum.
D They all involve the oscillation of atoms.
- 24 The graph represents a stationary wave at two different times.



What does the distance XY represent?

- A half the amplitude
B half the frequency
C half the period
D half the wavelength