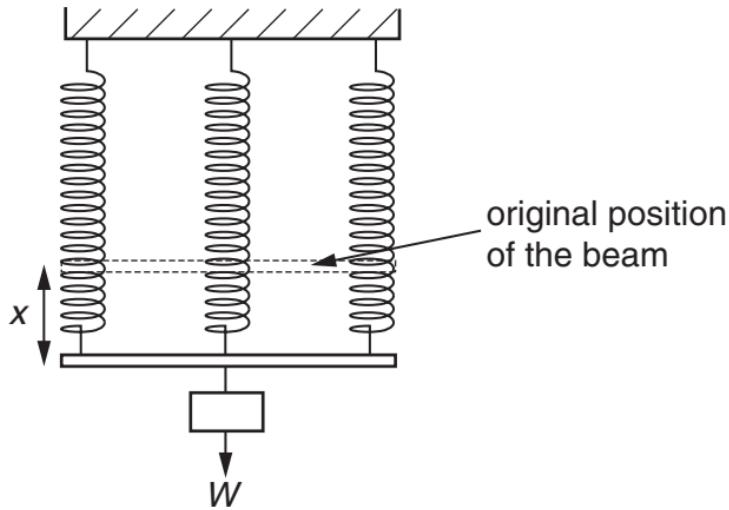


- 22 A beam, the weight of which may be neglected, is supported by three identical springs. When a weight  $W$  is hung from the middle of the beam, the extension of each spring is  $x$ .



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?