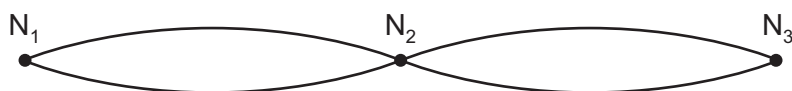
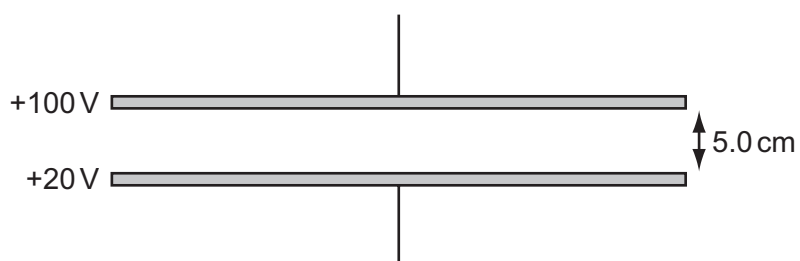


- 28 The diagram shows a standing wave on a string. The standing wave has three nodes N_1 , N_2 and N_3 .



Which statement is correct?

- A All points on the string vibrate in phase.
 - B All points on the string vibrate with the same amplitude.
 - C Points equidistant from N_2 vibrate with the same frequency and in phase.
 - D Points equidistant from N_2 vibrate with the same frequency and the same amplitude.
- 29 Two metal plates are held horizontal and parallel, 5.0 cm apart. The plates are at potentials of +100 V and +20 V.



What is the force experienced by an electron in the electric field between the plates?

- A $2.6 \times 10^{-18} \text{ N}$
- B $3.8 \times 10^{-18} \text{ N}$
- C $2.6 \times 10^{-16} \text{ N}$
- D $3.8 \times 10^{-16} \text{ N}$

Space for working