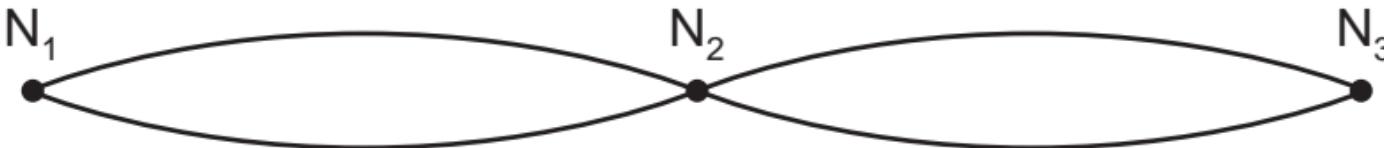


- 25 The diagram shows a standing wave on a string. The standing wave has three nodes  $N_1$ ,  $N_2$  and  $N_3$ .



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.

- 26 A parallel beam of light of wavelength 450 nm falls normally on a diffraction grating which has