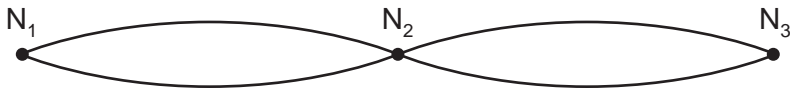


- 25** The diagram shows a standing wave on a string. The standing wave has three nodes N_1 , N_2 and N_3 .



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