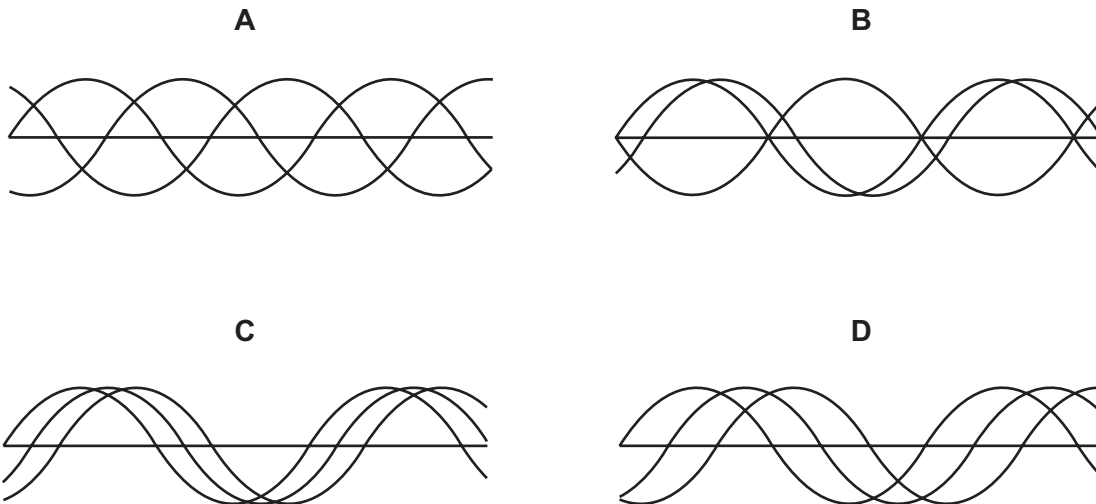


- 26** The three waves shown in each diagram have the same amplitude and frequency but differ in phase.

They are added together to give a resultant wave.

In which case is the resultant wave zero?



- 27** A stationary sound wave has a series of nodes. The distance between the first and the sixth node is 30.0 cm.

What is the wavelength of the sound wave?

- A** 5.0 cm      **B** 6.0 cm      **C** 10.0 cm      **D** 12.0 cm

- 28** What is meant by diffraction?

- A** Addition of two coherent waves to produce a stationary wave pattern.  
**B** Bending of waves round an obstacle.  
**C** Change of direction when waves cross the boundary between one medium and another.  
**D** Splitting of white light into colours.

**Space for working**