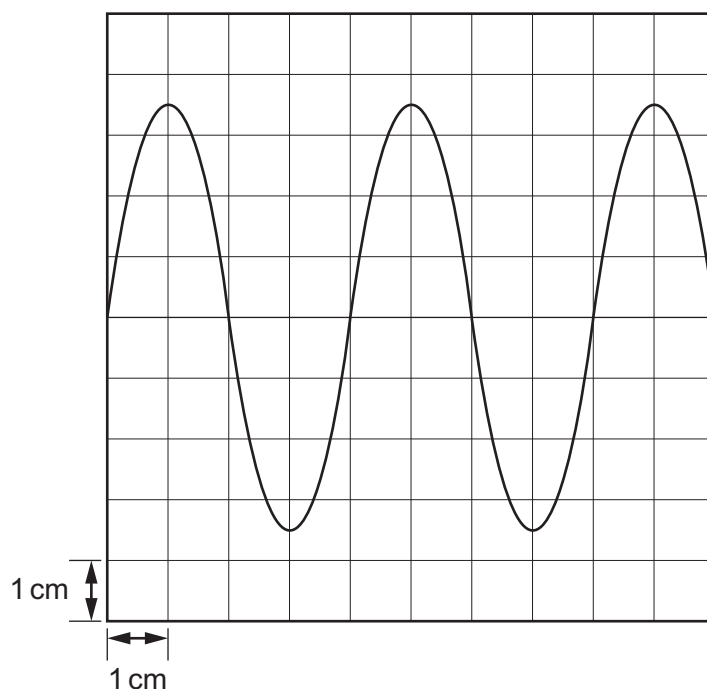


- 25 A sound wave is detected by a microphone and displayed on the screen of a cathode-ray oscilloscope (CRO).



The frequency of the wave is 2.5 kHz.

What is the setting on the time-base of the CRO?

- A**  $0.1 \text{ ms cm}^{-1}$     **B**  $0.4 \text{ ms cm}^{-1}$     **C**  $0.1 \text{ s cm}^{-1}$     **D**  $0.4 \text{ s cm}^{-1}$
- 26 A source of sound waves with constant frequency moves towards a stationary observer.
- The observer compares the sound waves arriving at the observer's position with the waves emitted by the source of sound.
- What is detected by the observer?
- A** a decreased frequency of the sound waves  
**B** no change in frequency of the sound waves  
**C** a decreased wavelength of the sound waves  
**D** no change in wavelength of the sound waves
- 27 Which type of waves **cannot** be polarised?
- A** radio waves  
**B** sound waves  
**C** ultraviolet waves  
**D** X-rays