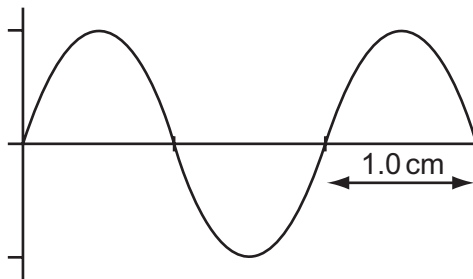


31 The diagram shows a cathode-ray oscilloscope display of an electromagnetic wave.



The time base setting is $0.20 \mu\text{s cm}^{-1}$.

Which statement is correct?

- A** The frequency of the wave is 2.5 MHz and it lies in the radio wave region of the electromagnetic spectrum.
- B** The frequency of the wave is 2.5 MHz and it lies in the microwave region of the electromagnetic spectrum.
- C** The frequency of the wave is 5.0 MHz and it lies in the radio wave region of the electromagnetic spectrum.
- D** The frequency of the wave is 5.0 MHz and it lies in the microwave region of the electromagnetic spectrum.

32 A charged particle moves in a uniform electric field between two parallel metal plates