ALBERTA SCIENCE 30 · UNIT C · 5 QUESTIONS

Electromagnetic Energy — Practice Test

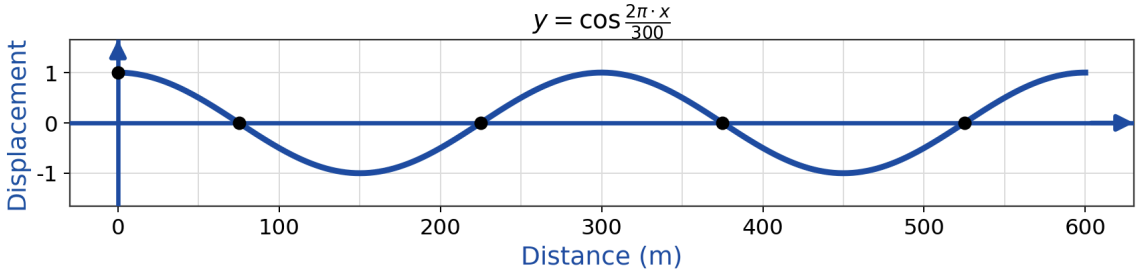
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In a vacuum, all types of electromagnetic radiation travel at**

- **A** speeds that depend on their frequency
- **B** the speed of sound
- **C** 3.00×10^8 m/s
- **D** speeds that depend on their wavelength

Understand It with Pulse | Flag a mistake

2 **The graph below shows a radio wave. The wavelength of this wave is**



A 30 m

B 300 m

C 600 m

D 3000 m

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3 **A periscope allows a person to see over an obstacle by using two mirrors. A periscope works because of the**

A refraction of light

B reflection of light

C absorption of light

D diffraction of light

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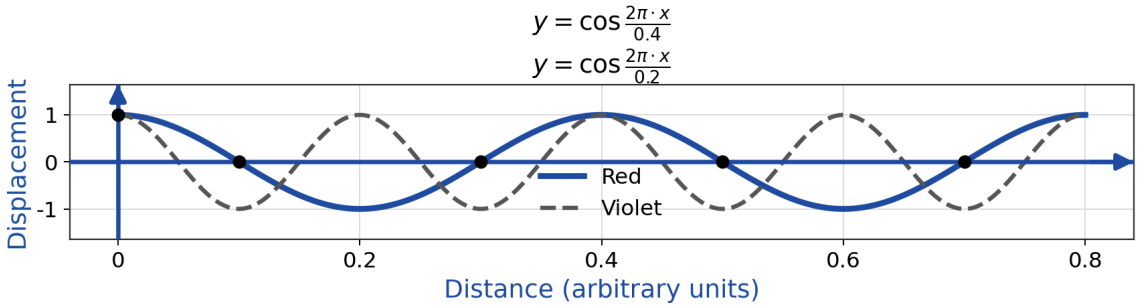
4 **The graph below shows two visible light waves. The wave with the longer wavelength is**



A Red

B Violet

C Both waves have the same wavelength

D Neither wave has a wavelength

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5 **A radar wave has a wavelength of 0.0300 m. Its frequency, in gigahertz (GHz), to the nearest tenth, is ____**

ANSWER _____

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ANSWER KEY

1. C
2. B
3. B
4. A
5. 10

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