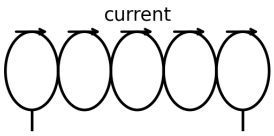
ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · UNIT D · 5 QUESTIONS

Waves, Sound, and Electricity and Magnetism — 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.

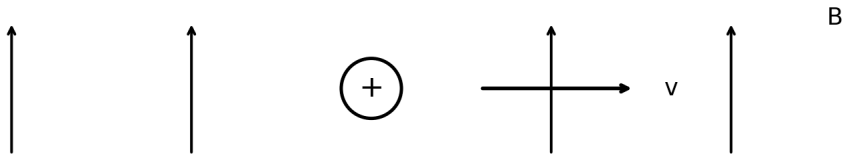
1 **The diagram shows a solenoid with current flowing through the coils. At the top of the coil, the current direction is**



- **A** to the left
- **B** into the page
- **C** out of the page
- **D** to the right

Understand It with Pulse | Flag a mistake

2 **The diagram shows a positive charge moving right in a magnetic field pointing up. Using the right hand rule, the magnetic force on the charge points**



- **A** out of the page
- **B** into the page
- **C** to the left
- **D** down

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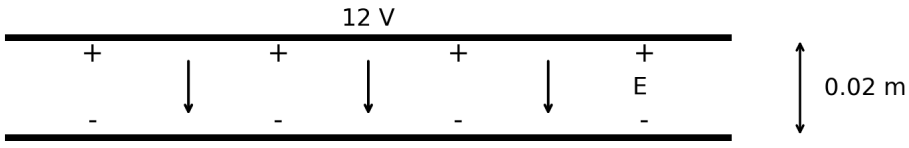
3 **The diagram shows two parallel plates with voltage and separation labelled. What is the electric field strength in newtons per coulomb between the plates?**



ANSWER _____

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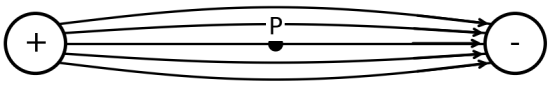
4

The diagram shows field lines from a positive charge on the left to a negative charge on the right, with point P in the middle. The electric field direction at P is



A to the left

B to the right

C up

D down

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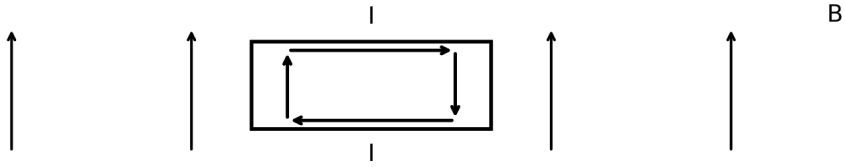
5 **The diagram shows a current loop in a magnetic field pointing up, with current to the right along the top side. The magnetic force on the top side points**



- **A** into the page
- **B** up
- **C** out of the page
- **D** down

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ANSWER KEY

1. D
2. A
3. 600
4. B
5. C

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