ONTARIO CALCULUS AND VECTORS, GRADE 12, UNIVERSITY PREPARATION (MCV4U) · UNIT D · 5 QUESTIONS

Algebra of Vectors, Lines, and Planes — 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 **Anatomical model of the human eye on a small stand, cross-section showing lens, retina and optic nerve, on a plain white surface, large in frame, no people. The cross product magnitude of (2, 1, 0) and (0, 1, 0) is**



A 3

B 1

C 13

D 2

Understand It with Pulse | Flag a mistake

2 The cross product magnitude of (3, 2, 0) and (0, 1, 0) is

- A 4
- B 3
- C 2
- D 6

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3 The cross product magnitude of (1, 3, 0) and (0, 1, 0) is

- A 1
- B 2
- C 3
- D 12

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4 **Two lines are parallel if their direction vectors are scalar multiples. The direction (2, 4) is parallel to (1, 2) because the scalar factor is**

- A 13
- B 1
- C 2
- D 3

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5 **Two lines are parallel if their direction vectors are scalar multiples. The direction (2, 6) is parallel to (1, 3) because the scalar factor is**

- A 3
- B 2
- C 1
- D 13

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ANSWER KEY

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

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