ALBERTA MATH 31 · UNIT 4 · 5 QUESTIONS

Integrals — 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 **Colourful spinner wheel is divided into four equal sections. $\int 7\,dx$ is equal to**



A $7 + C$

B $7x + C$

C $\frac{x}{7} + C$

D $\frac{7x^2}{2} + C$

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2 $\int (x^5 - 2x)\, dx$ is equal to

- **A** $\frac{x^6}{6} - x^2 + C$
- **B** $\frac{x^6}{6} - 2x + C$
- **C** $5x^4 - 2 + C$
- **D** $x^6 - x^2 + C$

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3 $\int \cos(2x)\, dx$ is equal to

- **A** $2\sin(2x) + C$
- **B** $-\sin(2x) + C$
- **C** $\frac{\sin(2x)}{2} + C$
- **D** $\frac{\cos(2x)}{2} + C$

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4 The graph of a function f is shown. The value of $\int_0^3 f(x)\,dx$ is

- A 10
- B 10.5
- C 12
- D 9

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5 The value of $\int_1^3 2x\,dx$ is _____ Record your answer as an integer.

ANSWER _____

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ANSWER KEY

1. B
2. A
3. C
4. B
5. 8

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