BRITISH COLUMBIA CALCULUS 12 (MCALC12) · UNIT A · 5 QUESTIONS

Functions, Graphs and Limits — 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 domain of f(x) = ln(x + 2) is**

- **A** x > -2
- **B** x ≥ -2
- **C** x > 2
- **D** x ≥ 2

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2 The range of $f(x) = \sqrt{x} + 3$ is

- **A** $y \geq 0$
- **B** $y > 3$
- **C** $y \geq 3$
- **D** $y \leq 3$

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3 If $f(x) = x^2$ and $g(x) = 2x - 1$, then $g(f(3))$ is

- **A** 17
- **B** 35
- **C** 5
- **D** 11

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4 **The inverse of f(x) = 2x - 7 is**

A $f^{-1}(x) = \frac{x - 7}{2}$

B $f^{-1}(x) = \frac{x + 7}{2}$

C $f^{-1}(x) = 2x + 7$

D $f^{-1}(x) = \frac{x}{2} - 7$

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5 **The function $f(x) = x^4 + 3x^2$ is**

A odd

B neither even nor odd

C even

D both even and odd

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ANSWER KEY

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

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