CALIFORNIA PRECALCULUS · UNIT 1 · 5 QUESTIONS

Functions, Graphs, and Transformations — 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 **If $f(x) = x^3 + 2x - 1$, then $f(-1)$ is**

- A 0
- B -2
- C 2
- D -4

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2 **If f(x) = 4x and g(x) = x - 3, then (f ° g)(x) is**

- **A** x - 12
- **B** 4x + 12
- **C** 4x - 12
- **D** 4x - 3

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3 **The inverse of f(x) = 3x + 8 is**

- **A** $f^{-1}(x) = 3x - 8$
- **B** $f^{-1}(x) = \frac{x + 8}{3}$
- **C** $f^{-1}(x) = \frac{x - 8}{3}$
- **D** $f^{-1}(x) = \frac{x}{3} + 8$

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4 **The domain of $f(x) = \sqrt{5x - 10}$ is**

- **A** $x \geq 2$
- **B** $x > 2$
- **C** $x \geq -2$
- **D** all real numbers

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5 **The range of $f(x) = (x + 3)^2 - 2$ is**

- **A** $y > -2$
- **B** $y \geq 3$
- **C** $y \geq -2$
- **D** $y \leq -2$

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ANSWER KEY

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

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