ARIZONA ALGEBRA II · UNIT 1 · 10 QUESTIONS

Functions and Graphs — 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 point (-1, 6) lies on the graph of y = f(x). The image of this point on the graph of y = f(x + 3) - 4 is**

- A (-4, 2)
- B (2, 10)
- C (2, 2)
- D (-4, 10)

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2 **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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3 **Given f(x) = x + 5 and g(x) = 2x - 1, the value of (f ° g)(3) is**

- **A** 10
- **B** 11
- **C** 6
- **D** 12

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4 Let f(x) = x + 3 for x ≤ 1 and f(x) = 4x for x > 1. The value of f(0) + f(2) is

- A 5
- B 9
- C 11
- D 3

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5 The sum of the solutions of |2x - 1| = 7 is

- A 1
- B 7
- C -7
- D 4

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6 The average rate of change of $f(x) = 3x^2$ on the interval $0 \leq x \leq 2$ is

- A 6
- B 12
- C 3
- D 9

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7 The function $f(x) = x^2 + 1$ is

- A neither even nor odd
- B both even and odd
- C even
- D odd

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8 The y-intercept of $y = 4x + 7$ is

- A 7
- B -7
- C 4
- D -4

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9 A linear function passes through (0, 2) and (3, 11). Its slope is

- A 2
- B 3
- C 9
- D $\frac{1}{3}$

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10 **If $f(x) = 2x^2 + 3$, then $f(4)$ is**

ANSWER

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ANSWER KEY

1. A
2. B
3. A
4. C
5. A
6. A
7. C
8. A
9. B
10. 35

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