ARIZONA PRECALCULUS · UNIT 1 · 10 QUESTIONS

Functions 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 **The inverse of f(x) = 4x - 8 is**

- **A** $f^{-1}(x) = \frac{x}{4} - 8$
- **B** $f^{-1}(x) = \frac{x - 8}{4}$
- **C** $f^{-1}(x) = \frac{x + 8}{4}$
- **D** $f^{-1}(x) = 4x + 8$

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

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

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3 **The graph of $y = x^2$ shifted right 2 and down 5 is**

- **A** $y = (x - 2)^2 - 5$
- **B** $y = (x - 2)^2 + 5$
- **C** $y = (x + 2)^2 + 5$
- **D** $y = (x + 2)^2 - 5$

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4 **The graph of y = f(-x) is the graph of f reflected across the**

- **A** y axis
- **B** line y = x
- **C** x axis
- **D** origin only

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5 **Compared with y = f(x), the graph of y = 3f(x) is**

- **A** shifted up by 3
- **B** stretched vertically by a factor of 3
- **C** stretched horizontally by a factor of 3
- **D** compressed vertically by a factor of 3

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6 If f(x) = 2x + 3 and g(x) = x - 1, then g(f(2)) is

- A 10
- B 4
- C 8
- D 6

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7 The y-intercept of y = 5x - 7 is

- A 7
- B -7
- C $\frac{7}{5}$
- D 5

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8 The zeros of $f(x) = x^2 - 16$ are

- A 4 only
- B 16, -16
- C -4, 4
- D -4 only

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9 If $f(x) = 6 - 2x$, then the value of x for which $f(x) = 0$ is

ANSWER _____

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10 If $f(x) = x^3$, then f(3) is

ANSWER _____

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ANSWER KEY

1.	C	**5.**	B	**9.**	3
2.	C	**6.**	D	**10.**	27
3.	A	**7.**	B		
4.	A	**8.**	C		

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