ALASKA 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 + 3 is**

A $f^{-1}(x) = \frac{x + 3}{4}$

B $f^{-1}(x) = \frac{x - 3}{4}$

C $f^{-1}(x) = 4x - 3$

D $f^{-1}(x) = \frac{x}{4} + 3$

Understand It with Pulse | Flag a mistake

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

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

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3 **The vertex of $y = -(x - 2)^2 + 6$ is**

- A (-2, 6)
- B (2, -6)
- C (-2, -6)
- D (2, 6)

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4 **The graph of y = f(-x) + 1 is the graph of y = f(x) reflected across the y-axis and**

A shifted down 1 unit

B shifted up 1 unit

C shifted left 1 unit

D shifted right 1 unit

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5 **Compared with y = f(x), the graph of y = 2f(x) is**

A compressed vertically by a factor of 2

B stretched vertically by a factor of 2

C shifted up 2 units

D shifted right 2 units

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6 **If f(x) = 3x - 8, then the value of x for which f(x) = 10 equals**

ANSWER _____

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7 **For f(x) = 2x and g(x) = x^2 + 3, the value of (f + g)(1) equals**

ANSWER _____

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8 **The y-intercept of f(x) = 5x - 15 is**

A 5

B -5

C 15

D -15

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9 The x-intercept of f(x) = 2x - 6 is

- A -3
- B 6
- C 3
- D -6

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10 Which function is one to one?

- A $f(x) = x^2$
- B $f(x) = |x|$
- C $f(x) = x^2 + 1$
- D $f(x) = 5x - 3$

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ANSWER KEY

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

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