WASHINGTON PRECALCULUS · UNIT 1

Functions and Transformations — Practice Test

Washington Precalculus • 10 questions

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 graph of $y = 3f(x)$ is the graph of $y = f(x)$ stretched**

- **A** horizontally by a factor of 3
- **B** vertically by a factor of 3
- **C** vertically by a factor of $\frac{1}{3}$
- **D** shifted up 3 units

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2 **The vertex of $y = -x^2 + 4x - 3$ is**

- A (2, 1)
- B (-2, 1)
- C (2, -1)
- D (4, -3)

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3 **For the piecewise function $f(x) = 2x$ if $x < 3$ and $f(x) = x + 4$ if $x \geq 3$, the value of $f(5)$ is**

- A 10
- B 9
- C 7
- D 8

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4 **The average rate of change of f(x) = 2x + 1 from x = 1 to x = 4 is ____.**

ANSWER _____

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5 **If f(x) = |x - 2|, then f(-3) is ____.**

ANSWER _____

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

A odd

B neither even nor odd

C linear

D even

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7 **The range of $f(x) = -x^2 + 6$ is**

- **A** $y \geq 6$
- **B** $y \leq 6$
- **C** $y \geq -6$
- **D** $y > 6$

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8 **The graph of $y = f(x) + 5$ is the graph of $y = f(x)$ shifted**

- **A** 5 units down
- **B** 5 units right
- **C** 5 units up
- **D** 5 units left

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9 If $f(x) = x^2 - 4x$, then $f(6) - f(2)$ is

- A 8
- B 12
- C 20
- D 16

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10 The x-intercept of $f(x) = 2x + 10$ is ____.

ANSWER _____

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ANSWER KEY

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

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