FUNCTION TOOLKIT - PRACTICE TEST | NEW BRUNSWICK PRE-CALCULUS B 120 · UNIT C · 25 QUESTIONS

Function Toolkit — 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 For f(x) = 2x + 3 and g(x) = x² , the value of (f plus g)(2) is

ANSWER _____

Understand It with Pulse | Flag a mistake

2 For f(x) = 3x + 1 and g(x) = x² , the value of (f plus g)(2) is

ANSWER _____

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3 For f(x) = 4x + 2 and g(x) = x² , the value of (f plus g)(2) is

ANSWER _____

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4 If f(x) = x² and g(x) = 2x , then (f + g)(3) is

ANSWER _____

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5 **The sum of the functions f(x) = x + 1 and g(x) = x - 1 at x = 5 is**

ANSWER _____

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6 **If (f + g)(2) = 10 and f(2) = 6 , then g(2) is**

ANSWER _____

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7 **For f(x) = 2x + 3 and g(x) = x² , the value of (f composed with g)(2) is**

ANSWER _____

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8 **For f(x) = 3x + 1 and g(x) = x² , the value of (f composed with g)(2) is**

ANSWER _____

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9 **For f(x) = 4x + 2 and g(x) = x² , the value of (f composed with g)(2) is**

ANSWER

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10 **If f(x) = x² and g(x) = x + 1 , then (f composed with g)(2) is**

ANSWER

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11 **The composition of f(x) = 2x after g(x) = x + 3 at x = 1 is**

ANSWER

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12 **If f(g(2)) = 10 and g(2) = 5 , then f(5) is**

ANSWER

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13 **For f(x) = 2x + 3 and g(x) = x² , the value of (g composed with f)(1) is**

ANSWER

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14 **For f(x) = 3x + 1 and g(x) = x² , the value of (g composed with f)(1) is**

ANSWER

Understand It with Pulse | Flag a mistake

15 **For f(x) = 4x + 2 and g(x) = x² , the value of (g composed with f)(1) is**

ANSWER

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16 **If f(x) = x + 2 and g(x) = x² , then (g composed with f)(3) is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **The composition of g(x) = x - 1 after f(x) = 3x at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **If g(f(1)) = 4 and f(1) = 2 , then g(2) is**

ANSWER _____

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19 **The absolute value of -3 is**

ANSWER _____

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20 **The absolute value of -5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 The absolute value of -7 is

ANSWER _____

Understand It with Pulse | Flag a mistake

22 The distance from -7 to 0 on a number line is

ANSWER _____

Understand It with Pulse | Flag a mistake

23 The equation |x| = 5 has solutions

A. x = 5 only

B. x = -5 only

C. x = 5 or x = -5

D. no solutions

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24 **The graph of y = |x| has a vertex at**

A (0, 0)

B (1, 0)

C (0, 1)

D (-1, 0)

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25 **For the piecewise function defined by x + 1 when x < 0 and 2x when x ≥ 0, the value at x = 2 is**

ANSWER _____

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ANSWER KEY

1. 11
2. 11
3. 14
4. 15
5. 10
6. 4
7. 11
8. 13
9. 18
10. 9
11. 8
12. 10
13. 25
14. 16
15. 36
16. 25
17. 5
18. 4
19. 3
20. 5
21. 7
22. 7
23. C
24. A
25. 4

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