SASKATCHEWAN PRE-CALCULUS 30 · UNIT B

Function Transformations, Operations, Compositions and Inverses — Practice Test

Saskatchewan Pre-Calculus 30 • 25 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 **If f(x) = 2x + 1 and g(x) = x + 4, then (f + g)(3) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The graph of y = 4 times f(x) is a vertical stretch by a factor of**

A 4

B 5

C $\frac{1}{4}$

D 1

Understand It with Pulse | Flag a mistake

3 **If f(x) = 2x + 5 and g(x) = x + 4, then (f + g)(3) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The graph of y = (x - 3)² is the graph of y = x² shifted**

A 3 units left

B 3 units right

C 3 units up

D 3 units down

Understand It with Pulse | Flag a mistake

5 The graph of y = 5 times f(x) is a vertical stretch by a factor of

- **A** 6
- **B** $\frac{1}{5}$
- **C** 5
- **D** 1

Understand It with Pulse | Flag a mistake

6 If $f(x) = x^2 + 3$ and $g(x) = 2x$, then $f(g(2))$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

7 If $f(x) = x^2 + 1$ and $g(x) = 2x$, then $f(g(6))$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **If $f(x) = x^2 + 4$ and $g(x) = 5x$, then $f(g(4))$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **If $f(x) = x^2 + 1$ and $g(x) = 2x$, then $f(g(5))$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The inverse of $f(x) = x + 5$ is**

A $x + 5$

B $-x + 5$

C $5x$

D $x - 5$

Understand It with Pulse | Flag a mistake

11 **If f(x) = 2x + 4 and g(x) = x + 3, then (f + g)(6) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **If f(x) = x^2 + 4 and g(x) = 4x , then f(g(6)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **If f(x) = 2x + 2 and g(x) = x + 5, then (f + g)(5) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **If f(x) = 2x + 5 and g(x) = x + 2, then (f + g)(5) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **If f(x) = x + 1 and g(x) = 5x, then g(f(3)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **If f(x) = 2x + 4 and g(x) = x + 1, then (f + g)(2) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **The inverse of f(x) = x + 1 is**

A x - 1

B x + 1

C -x + 1

D 1x

Understand It with Pulse | Flag a mistake

18 **The graph of $y = (x - 5)^2$ is the graph of $y = x^2$ shifted**

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

Understand It with Pulse | Flag a mistake

19 **If f(x) = x + 5 and g(x) = 2x, then g(f(6)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **If $f(x) = x^2 + 2$ and g(x) = 5x , then f(g(5)) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 The inverse of f(x) = x + 4 is

A x + 4

B -x + 4

C x - 4

D 4x

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The graph of y = 3 times f(x) is a vertical stretch by a factor of**

- **A** 4
- **B** $\frac{1}{3}$
- **C** 1
- **D** 3

Understand It with Pulse | Flag a mistake

25 **The inverse of f(x) = x + 6 is**

- **A** x - 6
- **B** x + 6
- **C** -x + 6
- **D** 6x

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 14
2. A
3. 18
4. B
5. C
6. 19
7. 145
8. 404
9. 101
10. D
11. 25
12. 580
13. 22
14. 22
15. 20
16. 11
17. A
18. B
19. 22
20. 627
21. C
22. 12
23. 17
24. D
25. A

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