NEWFOUNDLAND AND LABRADOR MATHEMATICS 3200 · UNIT B · 25 QUESTIONS

Function Operations — 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 If $f(2) = 7$, then $f^{-1}(7)$ is



A 2

B 7

C -2

D 0

Understand It with Pulse

Flag a mistake

2 **If f(x) = 2x + 3 and g(x) = x + 1 , then (f ° g)(1) is**

ANSWER

Understand It with Pulse | Flag a mistake

3 If $f(x) = 2x + 1$ and $g(x) = x^2$, then $(f \circ g)(x)$ is



A $2x^2 + 1$

B $2x^2$

C $(2x + 1)^2$

D $2x + 1$

Understand It with Pulse | Flag a mistake

4 **If f(x) = 2x + 3 , then (f ° f)(1) is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **If f(x) = 3x + 1 , then the difference quotient f(x + h) - f(x)/h is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **If f(2) = 4 and g(2) = 6 , then (fg)(2) is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **If f(3) = 6 and g(3) = 2 , then $(\frac{f}{g})(3)$ is**

ANSWER

Understand It with Pulse | Flag a mistake

8 If $f(x) = x^2 + 1$ for $x \geq 0$, then $f^{-1}(x)$ is



A $\sqrt{x + 1}$

B $\sqrt{x - 1}$

C $x^2 - 1$

D $\sqrt{x} - 1$

Understand It with Pulse | Flag a mistake

9 **The inverse of f(x) = 2x + 6 is**

- **A** x - 6/2
- **B** x + 6/2
- **C** 2x + 6
- **D** $\frac{x}{2}$

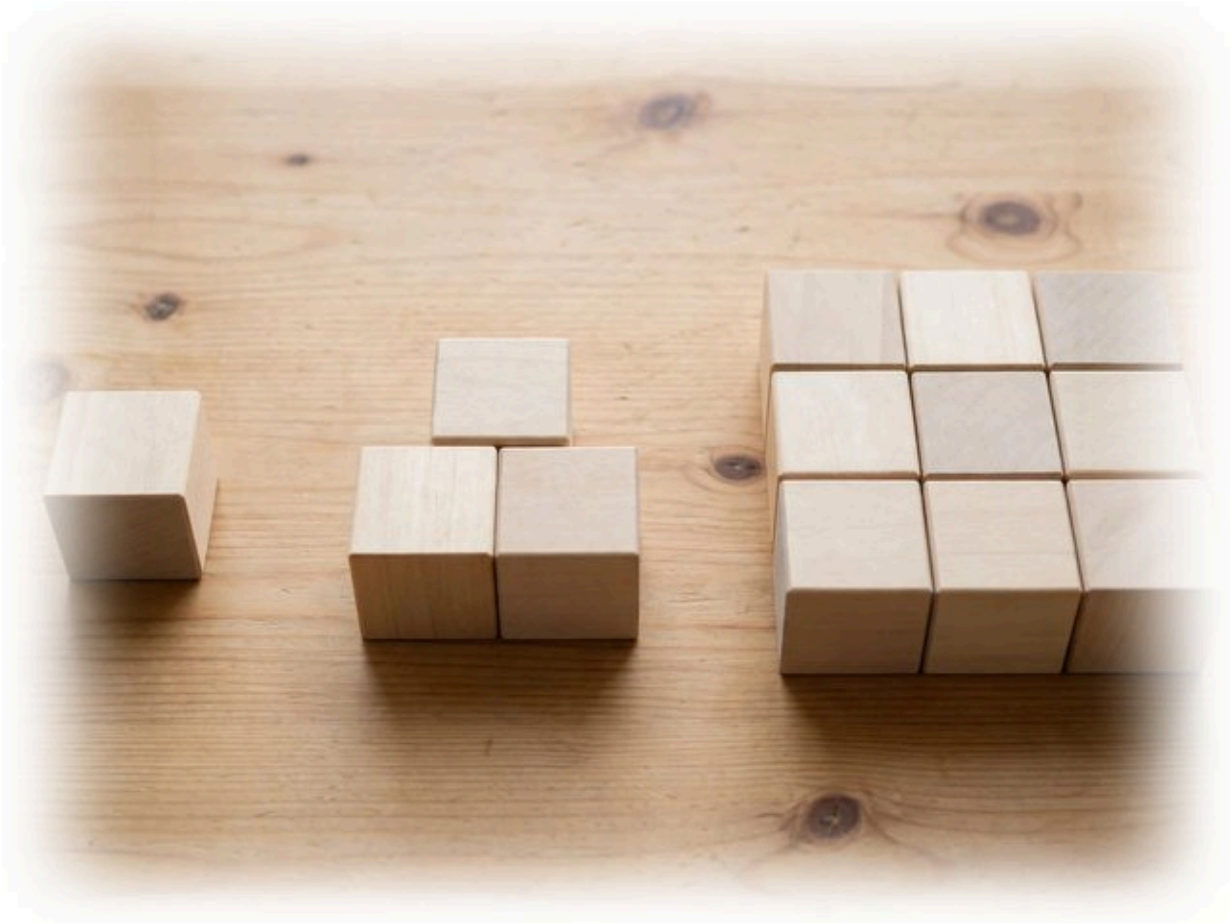
Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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



A $x^2 + x + 2$

B $x^2 - x + 2$

C $(x + 2)^2$

D $x^2 + 2x$

Understand It with Pulse | Flag a mistake

12 If $f(5) = 11$, then $f^{-1}(11)$ is



A 11

B 5

C -5

D 0

Understand It with Pulse | Flag a mistake

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

ANSWER

Understand It with Pulse | Flag a mistake

14 If $f(x) = 3x + -2$ and $g(x) = x^2$, then $(f \circ g)(x)$ is



A $3x^2 - 2$

B $3x^2$

C $(3x + -2)^2$

D $3x + -2$

Understand It with Pulse | Flag a mistake

15 **If f(x) = 5x + 1 , then (f ° f)(1) is**

ANSWER

Understand It with Pulse | Flag a mistake

16 **If f(x) = -2x + 1 , then the difference quotient f(x + h) - f(x)/h is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **If f(2) = -3 and g(2) = 4 , then (fg)(2) is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **If f(3) = 10 and g(3) = 4 , then $(\frac{f}{g})(3)$ is**

ANSWER

Understand It with Pulse | Flag a mistake

19 If $f(x) = x^2 + 4$ for $x \geq 0$, then $f^{-1}(x)$ is

A $\sqrt{x + 4}$

B $\sqrt{x - 4}$

C $x^2 - 4$

D $\sqrt{x} - 4$

Understand It with Pulse | Flag a mistake

20 The inverse of $f(x) = 3x + 5$ is

A $x + 5/3$

B $x - 5/3$

C $3x + 5$

D $\frac{x}{3}$

Understand It with Pulse | Flag a mistake

21 If $f(-1) = 4$, then $f^{-1}(4)$ is

A 4

B 1

C -1

D 0

Understand It with Pulse | Flag a mistake

22 If $f(x) = -2x + 4$ and $g(x) = x + 0$, then $(f \circ g)(1)$ is

ANSWER

Understand It with Pulse | Flag a mistake

23 If $f(x) = -1x + 4$ and $g(x) = x^2$, then $(f \circ g)(x)$ is

A $-1x^2$

B $(-1x + 4)^2$

C $-1x^2 + 4$

D $-1x + 4$

Understand It with Pulse | Flag a mistake

24 If $f(x) = 3x + 4$, then $(f \circ f)(1)$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

25 If $f(x) = 5x + 1$, then the difference quotient $f(x + h) - f(x)/h$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**10.**	8	**19.**	B
2.	7	**11.**	A	**20.**	B
3.	A	**12.**	B	**21.**	C
4.	13	**13.**	8	**22.**	2
5.	3	**14.**	A	**23.**	C
6.	24	**15.**	31	**24.**	25
7.	3	**16.**	-2	**25.**	5
8.	B	**17.**	-12		
9.	A	**18.**	2.5		

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