PRINCE EDWARD ISLAND PRE-CALCULUS 12 · UNIT B

Function Operations — Practice Test

Prince Edward Island Pre-Calculus 12 • 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 **For f(x) = 2x + 1 and g(x) = 3x , the value of f + g at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **For f(x) = 2x + 3 , the inverse function value at 11 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **For f(x) = $2x^2$, the value at x = 3 is**

ANSWER _____

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6 **A function has an inverse function only if it is**

A increasing everywhere

B one to one

C continuous

D quadratic

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7 **Composition f(g(x)) means**

- A apply f first , then g
- B multiply f and g
- C add f and g
- D apply g first , then f

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8 **For f(x) = x + 5 and g(x) = 2x , the value of g(f(4)) is**

ANSWER _____

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9 **For f(x) = 4x , the value of f(f(2)) is**

ANSWER _____

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10 **For f(x) = x^2 , the value of fthe function 3 at x = 4 is**

ANSWER _____

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11 **Function addition is defined by adding**

A domains

B graphs side by side

C outputs at the same input

D inputs at the same output

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12 **If f(g(x)) = x and g(f(x)) = x , then g is**

- A the derivative of f
- B a translation of f
- C the inverse of f
- D the reciprocal of f

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13 **The domain of a composite function must also satisfy that**

- A f and g are equal
- B g of x lies in the domain of f
- C f of x lies in the domain of g
- D x is positive

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14 **The domain of f plus g is the**

A intersection of the domains of f and g

B union of the ranges

C domain of f only

D range of g only

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15 **The graph of an inverse function is the reflection of the original graph in the line**

A y equals -x

B y equals x

C y equals 0

D x equals 0

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16 **For f(x) = 3x + 1 and g(x) = -1x , the value of f + g at x = 2 is**

ANSWER _____

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17 **For f(x) = x^2 and g(x) = x - 1 , the value of f(g(5)) is**

ANSWER _____

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18 **For f(x) = 2x and g(x) = x + 4 , the value of f(g(x)) at x = 3 is**

ANSWER _____

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19 **For f(x) = 3x - 5 , the inverse function value at 10 is**

ANSWER _____

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20 **For $f(x) = x^3$, the value at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **For f(x) = -1x + 1 and g(x) = 5x , the value of f + g at x = 3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **For f(x) = 5x and g(x) = x + 2 , the value of f(g(x)) at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **For f(x) = 5x - 1 , the inverse function value at 19 is**

ANSWER _____

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25 **For f(x) = x^2 + 1 , the value at x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	21	**10.**	48	**19.**	5
2.	25	**11.**	C	**20.**	8
3.	9	**12.**	C	**21.**	13
4.	4	**13.**	B	**22.**	13
5.	18	**14.**	A	**23.**	20
6.	B	**15.**	B	**24.**	4
7.	D	**16.**	5	**25.**	17
8.	18	**17.**	16		
9.	32	**18.**	14		

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