NOVA SCOTIA PRE-CALCULUS 12 · UNIT A · 10 QUESTIONS

Function Transformations and 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 $f(x) = 2x + 5$ and $g(x) = x^2$, find $f + g$ at $x = 3$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **If $f(x) = 4x + 4$ and $g(x) = x^2$, find $f + g$ at $x = 2$.**

ANSWER _____

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3 **If $f(x) = 1x + 1$ and $g(x) = x^2$, find $f + g$ at $x = 9$.**

ANSWER _____

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4 **The sum function f plus g at x equals**

A f of x + g of x

B f of x × g of x

C f of g of x

D g of f of x

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5 **The inverse of a function reverses**

A the sign only

B inputs and outputs

C the domain only

D the range only

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

A increasing everywhere

B a polynomial

C one to one

D continuous

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7 **The graph of an inverse function is the reflection of the original graph across**

A the x axis

B the y axis

C the origin

D the line y equals x

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8 **A vertical stretch by a factor of 3 multiplies**

A each y value by 3

B each x value by 3

C each y value by 1 ÷ 3

D each x value by 1 ÷ 3

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9 **A horizontal shift does not change**

A the position of the graph

B the shape of the graph

C the y values

D the x values

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10 **If $f(x) = x^2$, then $f(x + 1)$ is**

A $x^2 + 1$

B $x^2 + x$

C $(x + 1)^2$

D $2x + 1$

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ANSWER KEY

1. 20
2. 16
3. 91
4. A
5. B
6. C
7. D
8. A
9. B
10. C

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