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Functions Quiz Answer Key PDF

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Which of the following functions is bijective?

A. $f(x) = x^2$

B. f(x) = 2x + 3 ✓

C. $f(x) = \sin(x)$

D. $f(x) = e^x$

What type of function is $f(x) = ax^2 + bx + c$?

A. Linear

B. Quadratic ✓

C. Exponential

D. Logarithmic

Which of the following functions are injectively? (Select all that apply)

A. f(x) = x^3 ✓

B. $f(x) = x^2$

C. f(x) = 2x + 1 ✓

D. $f(x) = \sin(x)$

What is the primary characteristic of a function in mathematics?

A. It relates multiple outputs to a single input.

B. It relates each input to exactly one output. ✓

C. It can have multiple inputs for a single output.

D. It does not have a defined domain.

Which of the following is a linear function?

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A. f(x) = x^2 + 3x + 2

B. f(x) = 3x + 5 ✓

C. f(x) = 2^x

D. f(x) = log(x)

Which test can be used to determine if a graph represents a function?

A. Horizontal Line Test

B. Diagonal Line Test

C. Vertical Line Test ✓

D. Parallel Line Test

Which of the following is not a trigonometric function?

A. Sine

B. Cosine

C. Tanget

D. Logarithm ✓

Which of the following are properties of a function? (Select all that apply)

A. Domain ✓

B. Range ✓

C. Codomain ✓

D. Multiplicity

What is the range of the function f(x) = e^x?

A. All real numbers

B. All positive real numbers ✓

C. All non-negative real numbers

D. All integers

What are the applications of functions in real-world scenarios? (Select all that apply)

A. Modelinging population growth ✓

B. Designining algorithms ✓

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C. Solving linear equations

D. Analyzing financial trends ✓

Which functions are considered polynomial functions? (Select all that apply)

A. f(x) = 3x^2 + 2x + 1 ✓

B. f(x) = 5x^3 - 4x + 7 ✓

C. f(x) = log(x)

D. f(x) = 2^x

What is the domain of the function f(x) = sqrt(x)?

A. All real numbers

B. All positive real numbers

C. All non-negative real numbers ✓

D. All integers

Which of the following are examples of exponential functions? (Select all that apply)

A. f(x) = 3^x ✓

B. f(x) = x^3

C. f(x) = e^x ✓

D. f(x) = log(x)

What are the characteristics of a quadratic function? (Select all that apply)

A. It has a degree of 2. ✓

B. Its graph is a parabola. ✓

C. It is always increasing.

D. It can have two, one, or no real roots. ✓

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