

6 practice function operations form k answers

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Question 1: Simplify $f(x) + g(x)$, where $f(x) = 2x + 1$ and $g(x) = x - 3$

Answer: $f(x) + g(x) = (2x + 1) + (x - 3) = 3x - 2$

Question 2: Find the domain of $h(x)$ if $h(x) = 1 / (x + 3)$

Answer: The denominator of a fraction cannot be zero, so $x + 3$ cannot be equal to zero. Therefore, the domain of $h(x)$ is all real numbers except $x = -3$.

Question 3: Evaluate $f(g(2))$ if $f(x) = x^2 - 1$ and $g(x) = 2x + 1$

Answer: $g(2) = 2 * 2 + 1 = 5$, so $f(g(2)) = f(5) = 5^2 - 1 = 24$

Question 4: Solve for x if $f(x) = g(x)$, where $f(x) = 3x - 5$ and $g(x) = x + 2$

Answer: $3x - 5 = x + 2$, $2x = 7$, $x = 3.5$

Question 5: Find the range of $f(x)$ if $f(x) = |x - 2|$

Answer: The range of $f(x)$ is all non-negative real numbers, since the absolute value of any real number is always non-negative.

Question 6: Determine whether the graph of $f(x) = 2x^2 - 3x + 1$ has a maximum or minimum value. Find the value and x -coordinate of that point.

Answer: The graph of a parabola with the coefficient of x^2 positive has a minimum value. To find the minimum, we use the formula $x = -b / 2a$ and plug in $a = 2$ and $b =$

-3, giving $x = 3/4$. Then, we evaluate $f(3/4)$ to find the minimum value: $f(3/4) = 2(3/4)^2 - 3(3/4) + 1 = -3/4$.

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