

Domain And Range Multiple Choice Questions Tutorial

Understanding Domain and Range Multiple Choice Questions

Domain and range multiple choice questions are fundamental components of algebra and calculus assessments, often used to evaluate a student's understanding of functions. These questions test the ability to identify the set of possible input values (domain) and the set of possible output values (range) of a given function. Mastering these types of questions is essential for students aspiring to excel in mathematics, as they form the basis for understanding more complex concepts such as inverse functions, transformations, and graph analysis.

In this comprehensive guide, we will explore the significance of domain and range, provide strategies to approach multiple choice questions effectively, and offer numerous practice examples. Whether you're preparing for exams or seeking to deepen your understanding, this article aims to be your ultimate resource.

The Significance of Domain and Range in Mathematics

What is the Domain?

The domain of a function is the complete set of all possible input values (usually represented as 'x') that the function can accept without leading to any mathematical contradictions or undefined expressions. For example, in the function $f(x) = \frac{1}{x}$, the domain cannot include $x=0$ because division by zero is undefined.

What is the Range?

The range of a function is the set of all possible output values (usually represented as 'y') that the function can produce based on its domain. Continuing with the previous example, the range of $f(x) = \frac{1}{x}$ is all real numbers except zero because the output can be any real number except zero.

Why are Domain and Range Important?

Understanding domain and range is crucial for:

- Graphing functions accurately
- Solving real-world problems involving functions
- Determining the behavior of functions at specific points
- Simplifying complex algebraic expressions
- Preparing for standardized tests like SAT, ACT, and other math assessments

Types of Multiple Choice Questions on Domain and Range

Multiple choice questions (MCQs) on domain and range can vary in complexity, from basic identification to more challenging problems involving transformations and composite functions.

Common Formats of Domain and Range MCQs

- Function Graph Analysis: Given a graph, select the correct domain and range.
- Algebraic Function Expressions: Given an algebraic expression, identify the domain and range.
- Multiple Function Comparisons: Choose the correct domain and range among several options.
- Word Problems: Interpret real-world scenarios and determine the corresponding domain and range.

Sample Question Types

- Identify the domain of the function:

"What is the domain of $f(x) = \sqrt{x-3}$?"

- Determine the range of the function:

"What is the range of $f(x) = 2x + 5$?"

- Graph interpretation:

"Based on the graph, which of the following options correctly describes the domain?"

- Function transformations:

"If $g(x) = \frac{1}{x+2}$, what is the domain of g ?"

- Composite functions:

"Given $f(x) = x^2$ and $g(x) = \sqrt{x}$, what is the domain of $f(g(x))$?"

Strategies for Solving Domain and Range Multiple Choice Questions

Approaching these questions effectively requires a strategic mindset. Here are some practical tips:

1. Understand the Function Type

Identify whether the function is linear, quadratic, rational, radical, exponential, or logarithmic. Different types have distinct domain and range considerations.

2. Analyze the Function's Formula

- Look for restrictions like division by zero, square roots of negative numbers, or logarithms of non-positive numbers.
- For rational functions, exclude values that make the denominator zero.
- For radical functions, consider the expression inside the root.

3. Use Graphs When Available

Graphs provide visual insight into the domain and range:

- The domain corresponds to the extent of the graph along the x-axis.
- The range corresponds to the extent along the y-axis.

4. Apply Algebraic Techniques

- Solve inequalities to find the domain.
- Use transformations to understand the shift and stretch effects on the range.

5. Eliminate Clearly Wrong Choices

- Use logical reasoning to eliminate options that violate the basic properties of the function.
- Check for extraneous solutions introduced during algebraic manipulations.

6. Practice with Diverse Examples

Regular practice helps recognize patterns and common pitfalls, making it easier to identify correct options quickly.

Sample Multiple Choice Questions with Solutions

Question 1:

What is the domain of $f(x) = \frac{3}{x-2}$?

- a) All real numbers
- b) $x \neq 2$
- c) $x > 2$
- d) x

Solution:

Since the denominator cannot be zero, $x-2 \neq 0$. Therefore, the domain is all real numbers except $x=2$.

Correct answer: b) $x \neq 2$

Question 2:

Determine the range of $f(x) = \sqrt{5-x}$.

- a) $y \geq 0$
- b) $0 \leq y \leq 5$
- c) $y \leq 5$
- d) $y \geq 5$

Solution:

The expression inside the square root must be non-negative: $5-x \geq 0 \Rightarrow x \leq 5$.

The output $f(x) = \sqrt{5 - x}$ is always greater than or equal to zero, and since the maximum value occurs at $x \rightarrow -\infty$ (which is undefined), the maximum actual output is at $x = -\infty$, but within the domain, the maximum occurs at $x = -\infty$, which isn't practical. More precisely, as $x \rightarrow -\infty$, $f(x) \rightarrow \infty$, but since x must be less than or equal to 5, the maximum output is at $x = -\infty$, which tends to infinity. But the domain restricts $x \leq 5$, and as x approaches $-\infty$, the output grows without bound.

Actually, for finite x , the maximum value of $f(x)$ is at the smallest x , which tends to infinity. But because the domain is $x \leq 5$, the maximum value of $f(x)$ occurs at $x \rightarrow -\infty$, with $f(x) \rightarrow \infty$. But in practice, the domain is all real x with $x \leq 5$, so the range is all $y \geq 0$.

Correct answer: a) $y \geq 0$

Question 3:

Given the graph of a quadratic function opens upwards with vertex at $((2, -3))$, what is its range?

- a) $y \leq -3$
- b) $y \geq -3$
- c) All real numbers
- d) $y \neq -3$

Solution:

Since the parabola opens upward and the vertex is at $((2, -3))$, the minimum value of the function is -3 , and it extends infinitely upward.

Correct answer: b) $y \geq -3$

Common Mistakes to Avoid

- Ignoring restrictions: Always check for values that make the denominator zero or the expression inside a root or logarithm undefined.
- Misinterpreting the graph: Ensure the interpretation of the graph's domain and range aligns with the axes.
- Assuming symmetry where there is none: Not all functions are symmetric; verify carefully.

- Overlooking extraneous solutions: When solving inequalities or equations, discard solutions outside the function's valid domain.

Conclusion and Final Tips

Mastering domain and range multiple choice questions is essential for a strong mathematical foundation. Here are some final tips to excel:

- Practice regularly: Use diverse problems to familiarize yourself with different function types.
- Understand the properties of functions: Recognize how transformations affect domain and range.
- Visualize with graphs: When in doubt, sketch the graph to gain clarity.
- Check your work: Always verify if your chosen answer aligns with the restrictions and behavior of the function.

By applying these strategies and understanding the core concepts, you'll be well-equipped to confidently tackle domain and range multiple choice questions, boosting your performance in exams and enhancing your overall mathematical literacy.

Domain and Range Multiple Choice Questions are fundamental components in understanding functions within mathematics. They serve as essential tools for students and educators alike to assess comprehension of the core concepts related to functions, their inputs, and outputs. These questions help in evaluating the ability to identify the set of possible input values (domain) and the set of corresponding output values (range) of various functions, including algebraic, graphical, and real-world functions. As a critical part of mathematics curricula, mastering the skill of solving multiple-choice questions on domain and range enhances logical reasoning, analytical thinking, and problem-solving capabilities, which are vital for success in higher mathematics and related disciplines.

Understanding the Concept of Domain and Range

Before diving into multiple-choice questions, it is crucial to understand what domain and range represent in the context of functions.

What is the Domain?

The domain of a function is the complete set of all possible input values (usually represented as x -values) for which the function is defined. It specifies all the values that can be substituted into the function without causing any mathematical inconsistencies such as division by zero or taking the square root of a negative number (in real numbers).

What is the Range?

The range of a function is the set of all possible output values (usually represented as y-values) that result from using the domain as input. It indicates the values that the function can produce.

Why are Domain and Range Important?

- They define the scope of a function.
- They help in graphing functions accurately.
- They are essential in solving real-world problems modeled by functions.
- They prevent errors such as division by zero or taking square roots of negative numbers.

Types of Multiple Choice Questions on Domain and Range

Multiple-choice questions (MCQs) on domain and range can be classified based on the format and the content they assess. Here are some common types:

1. Basic Conceptual MCQs

These questions test the understanding of the definitions and properties of domain and range.

Example:

Which of the following best describes the domain of the function $f(x) = \frac{1}{x-3}$?

- a) All real numbers
- b) All real numbers except 3
- c) Only positive real numbers
- d) Only negative real numbers

Correct answer: b) All real numbers except 3

2. Graph-based MCQs

These questions involve analyzing the graph of a function to determine its domain and range.

Example:

Given the graph of a parabola opening upwards with vertex at $(2, -3)$, what is the range?

- a) $((-\infty, -3])$
- b) $[-3, \infty)$
- c) $((-\infty, \infty))$
- d) $[2, \infty)$

Correct answer: b) $[-3, \infty)$

3. Function Formula MCQs

These questions provide a formula or rule for the function and ask students to identify the domain or range.

Example:

Find the domain of $f(x) = \sqrt{5 - x}$.

- a) $((-\infty, 5])$
- b) $[0, 5])$
- c) $[-\infty, 5])$
- d) $[-\infty, \infty))$

Correct answer: a) $((-\infty, 5])$

4. Real-world Context MCQs

These questions involve functions modeling real-life situations, asking for the domain or range based on context.

Example:

A car travels such that its distance $d(t)$ in miles after t hours is given by $d(t) = 60t - 2t^2$. What is the possible range of $d(t)$ for $t \geq 0$?

- a) $[0, 90]$ miles
- b) $[0, 60]$ miles
- c) $[0, 120]$ miles
- d) $[0, \infty)$ miles

Correct answer: a) $[0, 90]$ miles

Strategies for Solving Multiple Choice Questions on Domain and Range

Effective strategies can significantly improve accuracy and confidence in answering MCQs related to domain and range.

1. Understand the Function Type

- Recognize whether the function is algebraic, rational, radical, exponential, or trigonometric.
- Know the typical restrictions associated with each type.

2. Analyze the Function Formula

- For radical functions, ensure the expression under the root is non-negative.
- For rational functions, identify values that make the denominator zero.
- For logarithmic functions, determine where the argument is positive.

3. Use Graphs When Available

- Graphs provide visual insights into the domain and range.
- Check the x-values where the graph exists (domain).
- Observe the lowest and highest y-values for the range.

4. Consider the Context

- For real-world problems, interpret the physical meaning of the function.
- Apply constraints based on the problem scenario.

5. Eliminate Clearly Incorrect Options

- Use logical reasoning to discard options that violate function restrictions.

Features and Benefits of Multiple Choice Questions on Domain and Range

MCQs are a popular assessment format due to several features:

- Efficiency: Allow quick testing of understanding across various topics.
- Objective Scoring: Minimize grading biases.
- Coverage: Enable testing of a broad range of concepts in a single exam.
- Diagnostic Value: Help identify specific misconceptions (e.g., neglecting restrictions).

Pros:

- Easy to administer and score.
- Useful for formative assessments and practice.
- Encourage students to think critically about each option.

Cons:

- May encourage guessing if not well-designed.
- Can sometimes oversimplify complex concepts.
- Limited in assessing deeper understanding unless carefully constructed.

Common Challenges and Tips for Educators and Students

Challenges Faced by Students

- Misinterpreting the restrictions due to complex functions.
- Confusing the domain with the range.
- Overlooking the effect of composition or transformations.
- Difficulty translating graphical information into algebraic form.

Tips for Students

- Practice with diverse functions to build intuition.
- Always check for restrictions when dealing with radicals and rational functions.
- Use graphs as visual aids when possible.
- Read each option carefully before selecting an answer.

Tips for Educators

- Incorporate a variety of question types (conceptual, graphical, contextual).
- Provide clear explanations for correct and incorrect options.
- Use visual aids like graphs to reinforce understanding.
- Encourage students to justify their choices to deepen comprehension.

Conclusion

Multiple choice questions on domain and range are invaluable tools for assessing and reinforcing understanding of fundamental mathematical concepts. They challenge students to think critically, analyze functions from different perspectives, and apply their knowledge to various contexts. When well-designed, these questions not only test rote memorization but also promote deeper conceptual understanding. Whether used in classroom assessments, practice tests, or competitive exams, MCQs help learners develop the skills needed to analyze functions confidently and accurately. As both a teaching and learning resource, they serve as a cornerstone in mastering the essential topic of domain and range in mathematics.

Question What is the domain of the function $f(x) = \sqrt{x - 2}$? The domain is $x \geq 2$ because the expression under the square root must be non-negative. If $f(x) = 2x + 3$, what is the range of the function? The range is all real numbers, since the function is linear with no restrictions. Which of the following is the correct domain of $f(x) = 1/(x - 5)$? $x \neq 5$, because the denominator cannot be zero. For the function $f(x) = |x + 4|$, what is the range? The range is all real numbers greater than or equal to 0. Which of the following functions has a limited (finite) range? $f(x) = \sin(x)$ has a limited range of $[-1, 1]$. If the function $f(x) = x^2$, what is the domain and range? Domain: all real numbers; Range: $y \geq 0$.

Related keywords: domain, range, multiple choice, functions, math questions, Cartesian plane, x-values, y-values, graph, function notation

Domain And Range From Graph Multiple Choice

Domain and range from graph multiple choice questions are essential tools in understanding the fundamental concepts of functions in mathematics. These questions help students and learners evaluate their ability to interpret graphs accurately and determine the set of possible inputs (domain) and outputs (range) of a function. Mastering this skill is crucial for progressing in algebra, calculus, and other advanced mathematical topics. In this article, we will explore the concepts of domain and range, how to identify them from graphs, and strategies for answering multiple-choice questions effectively.

Understanding the Domain and Range of a Function

What is the Domain?

The domain of a function is the complete set of all possible input values (usually represented by the variable x) for which the function is defined. In graphical terms, it corresponds to all the x -values that have at least one corresponding y -value on the graph.

What is the Range?

The range of a function is the set of all possible output values (usually represented by y) that the function can produce. Graphically, it includes all the y -values that the graph attains for the x -values in the domain.

Why are Domain and Range Important?

Understanding the domain and range is fundamental for:

- Identifying the behavior of functions
- Graphing functions accurately
- Solving equations and inequalities
- Applying functions to real-world problems

How to Determine Domain and Range from Graphs

Steps to Find the Domain

- Look at the graph horizontally to identify all x -values where the graph exists.
- Check for all the x -values over which the graph extends or is continuous.
- Note any restrictions, such as gaps, holes, or vertical asymptotes, which may limit the domain.

Steps to Find the Range

- Observe the vertical extent of the graph.
- Identify the lowest and highest y-values that the graph attains.
- Consider any restrictions, such as gaps or asymptotes that limit the y-values.

Common Graph Features Affecting Domain and Range

- **Vertical lines:** A vertical line intersecting the graph at more than one point indicates a non-function; in functions, vertical lines should only intersect once.
- **Holes and gaps:** These can restrict the domain or range
- **Asymptotes:** Vertical asymptotes restrict the domain, while horizontal asymptotes influence the range.
- **Boundedness:** If the graph is bounded above or below, it affects the range accordingly.

Multiple Choice Questions on Domain and Range from Graphs

Typical Structure of Questions

Multiple-choice questions often present a graph accompanied by several options for the domain and range. The task is to select the correct set(s) based on the graph.

Example Question:

Given the graph below, select the correct domain and range.

Options:

- a) Domain: $[-3, 2]$, Range: $[0, 5]$
- b) Domain: $(-?, ?)$, Range: $(-?, ?)$
- c) Domain: $[1, 4]$, Range: $[2, 6]$
- d) Domain: $[0, 3]$, Range: $[1, 4]$

Answer: Based on the graph, the student must analyze the x-values and y-values the graph covers to choose the correct option.

Strategies for Answering Multiple Choice Questions Effectively

- **Visual Inspection:** Carefully observe the graph for the extremities of the curve.
- **Identify key points:** Find the minimum and maximum points vertically and horizontally.
- **Look for restrictions:** Note any holes, jumps, or asymptotes that limit the domain or range.
- **Eliminate incorrect options:** Use the process of elimination based on the visual clues.
- **Double-check:** Confirm that the selected options align with the graph's features.

Examples of Domain and Range from Graph Multiple Choice Questions

Example 1: Linear Function

Graph features: The line extends infinitely in both directions.

Question: What are the domain and range?

Options:

- a) Domain: $\mathbb{R}$, Range: $\mathbb{R}$
- b) Domain: $[0, 10]$, Range: $[2, 8]$
- c) Domain: $(-\infty, 5]$, Range: $[3, \infty)$
- d) Domain: $[1, 4]$, Range: $[1, 4]$

Answer: a) Domain: $\mathbb{R}$, Range: $\mathbb{R}$

Explanation: Since the line extends infinitely in both directions, the domain and range are all real numbers.

Example 2: Quadratic Function

Graph features: Parabola opening upwards, vertex at $(2, 1)$, extending infinitely to the left and right, with y-values from 1 upwards.

Question: Determine the domain and range.

Options:

- a) Domain: $?$, Range: $[1, ?)$
- b) Domain: $[0, 4]$, Range: $[1, 5]$
- c) Domain: $(-?, 2]$, Range: $(-?, 1]$
- d) Domain: $[2, 6]$, Range: $[1, 4]$

Answer: a) Domain: $?$, Range: $[1, ?)$

Explanation: The parabola opens upward with vertex at $(2, 1)$, extending infinitely horizontally, and y-values starting at 1 and increasing without bound.

Common Mistakes and How to Avoid Them

- **Misinterpreting the graph:** Always verify the points and features rather than relying on assumptions.
- **Ignoring asymptotes:** Vertical asymptotes can restrict the domain; horizontal asymptotes impact the range.
- **Confusing bounded and unbounded graphs:** Recognize whether the graph extends infinitely or is limited.
- **Overlooking gaps or holes:** These can exclude certain x or y-values from the domain or range.

Conclusion

Understanding how to identify the domain and range from graphs is a vital skill in mathematics, especially when tackling multiple-choice questions. By visually analyzing the graph's features and applying systematic strategies, learners can accurately determine the sets of possible inputs and outputs for various functions. Practice with diverse graphs enhances this skill, leading to better performance in exams and a deeper comprehension of mathematical functions. Remember, always verify the graph's features carefully, pay attention to restrictions like asymptotes or holes, and eliminate incorrect options logically to arrive at the correct answer confidently.

Understanding Domain and Range from Graphs: A Comprehensive Guide to Multiple Choice Questions

When studying functions in mathematics, one of the fundamental concepts to master is domain and range. These terms describe the set of possible input values (domain) and output values (range) of a function. Often, students encounter questions asking them to determine the domain and range

from a graph, especially in multiple-choice formats. Such questions test not only your understanding of the concepts but also your ability to analyze visual data accurately. This guide aims to provide a detailed breakdown of how to interpret a graph to find the domain and range, with strategies tailored for multiple-choice questions, ensuring you become confident in tackling these problems.

What Are Domain and Range?

Before diving into graphical analysis, it's essential to clarify what domain and range mean in the context of functions.

The Domain

The domain of a function is the set of all possible input values (usually represented as x-values) for which the function is defined. In a graph, the domain corresponds to the horizontal extent of the graph—that is, all x-values where the graph exists.

The Range

The range is the set of all possible output values (usually represented as y-values) that the function can produce. On a graph, this corresponds to the vertical extent—covering all y-values the graph reaches or passes through.

Analyzing Graphs for Domain and Range

When faced with a graph and multiple-choice options, the key is systematic analysis. Here's a step-by-step approach:

Step 1: Identify the Graph's Extent Horizontally (Domain)

- Look at the leftmost point of the graph to find the minimum x-value where the graph exists.
- Look at the rightmost point to find the maximum x-value.
- Check whether the graph extends infinitely in either direction (e.g., arrows at the ends), which indicates the domain is all real numbers or unbounded in that direction.
- Be aware of any gaps, holes, or interruptions that limit the domain.

Step 2: Identify the Graph's Extent Vertically (Range)

- Find the lowest y-value the graph reaches.
- Find the highest y-value the graph reaches.

- Determine if the graph continues infinitely upward or downward (e.g., asymptotes or arrows). If so, the range might be unbounded.
- Note any flat segments or points where the graph stops, which can restrict the range.

Step 3: Consider Special Features

- Closed vs. open circles: Closed circles mean that point is included in the domain or range; open circles mean the point is not included.
- Vertical or horizontal asymptotes: These can affect the domain or range, often implying that certain values are excluded.
- Intervals: Multiple disconnected parts of the graph may indicate a union of intervals for the domain or range.

Step 4: Match Your Findings to Multiple Choice Options

- Once you determine the possible set(s) for the domain and range, compare with the options.
- Remember that options may be expressed as intervals, unions, or inequalities.
- Be cautious about whether the endpoints are inclusive (closed circle) or exclusive (open circle).

Common Graph Features and How They Influence Domain and Range

Understanding typical graph features and their impact on domain and range can simplify analysis.

- Linear Graphs

- Extends infinitely in both directions unless restricted.
- Domain: All real numbers.
- Range: All real numbers.

- Quadratic (Parabolic) Graphs

- Opens upwards or downwards.
- Domain: All real numbers (since quadratic functions are defined everywhere).
- Range: Depending on the vertex, the range will be either $y \geq \text{minimum}$ or $y \leq \text{maximum}$.

- Absolute Value Graphs

- V-shaped graph.
- Domain: All real numbers.
- Range: $y \geq$ value at the vertex (if vertex is minimum).

- Piecewise or Restricted Graphs

- May have limited x-intervals.
- Domain: Limited to the x-intervals where the graph exists.
- Range: Corresponds to the y-values over those x-intervals.

- Graphs with Asymptotes

- Vertical asymptotes suggest certain x-values are excluded (domain excludes these points).
- Horizontal asymptotes can influence the limits of the range.

Practical Tips for Multiple Choice Questions

- Eliminate obviously wrong options first. For example, if the graph clearly extends from $x = -2$ to $x = 3$, options suggesting otherwise can be discarded.
- Pay attention to inclusivity. Closed circles imply the endpoint is included in the domain or range, while open circles do not.
- Look for asymptotes or gaps. These features can restrict the domain or range.
- Check the behavior at the ends of the graph. Does it go to infinity, approach a finite value, or stop abruptly?
- Compare the y-values visually. Is the graph bounded above or below? Does it extend infinitely?

Examples

Example 1: Graph with a Closed Circle at $x = -3$ and an Arrow to the Right

- Observation: The graph starts at $x = -3$ with a closed circle and extends infinitely to the right.
- Domain: $x \geq -3$

- Range: Depending on the graph's vertical extent, e.g., y from 1 to infinity.
- Multiple-choice match: Look for options like $[-3, ?)$ for domain and $[1, ?)$ for range.

Example 2: Parabola Opening Up with Vertex at $(0, 2)$

- Observation: The parabola opens upward, vertex at $(0, 2)$.
- Domain: All real numbers.
- Range: $y \geq 2$.
- Multiple-choice match: Domain: $(-\infty, \infty)$; Range: $[2, \infty)$.

Example 3: Graph with a Vertical Asymptote at $x = 2$

- Observation: The graph approaches but does not touch $x = 2$.
- Domain: All real x except $x = 2$.
- Range: depends on the behavior of the graph, perhaps all real y -values.
- Multiple-choice match: Domain: $(-\infty, 2) \cup (2, \infty)$.

Practice Strategies

- Use the graph's key features to quickly identify the extent of the domain and range.
- Translate visual cues into interval notation or inequalities.
- Be mindful of whether endpoints are included or excluded.
- Confirm your interpretation by checking the behavior at critical points.

Conclusion

Mastering domain and range from graph multiple choice questions requires a blend of conceptual understanding and careful visual analysis. By systematically examining the horizontal and vertical extents of a graph, noting features like asymptotes, holes, and the nature of the graph (bounded or unbounded), you can confidently select the correct options. Practice with various types of graphs enhances your ability to quickly interpret and analyze these visual representations, turning what might seem complex into straightforward problem-solving. Remember, the key lies in detailed observation and logical deduction—skills that are essential not just for exams but for a deep understanding of functions in mathematics.

Question What does the domain of a graph represent? The set of all possible x -values (input values) for which the graph is defined. How can you determine the range of a function from its graph? By identifying all the y -values that the graph attains or approaches. Which of the following is

the correct domain for a graph that exists from $x = -3$ to $x = 5$? A) $[-3, 5]$ B) $(-?, ?)$ C) $(??, 5]$ D) $[?3, ?)$ If a graph is a parabola opening upward with vertex at $(0, -2)$, what is the range? B) $[-2, ?)$ A graph shows a horizontal line at $y = 4$ for all x -values. What is the range? A) $\{4\}$ Which of these options best describes the domain of a function that is only defined between $x = 1$ and $x = 7$? C) $[1, 7]$ From the graph, which is the correct way to find the range? By looking at the lowest and highest y -values the graph reaches or approaches. A graph shows a circle centered at $(2, -3)$ with radius 3. What is the domain? B) $[?1, 5]$ Which of the following best describes how to find the domain and range from a graph? Identify all x -values and y -values that the graph covers, including any open or closed intervals.

Related keywords: domain, range, graph, multiple choice, coordinates, x -axis, y -axis, functions, interval, values

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