

The second mapping does not satisfy this condition so we cannot call it a function.

Consider again what we can now call the function such that $x \mapsto x^2$.

Using f for 'function' and the symbol $:$ to mean 'such that', we can write $f : x \mapsto x^2$ to mean 'f is the function such that x maps to x^2 '.

We use the notation $f(x)$ to represent the output values of the function,

e.g.

$$\text{for } f : x \mapsto x^2 \text{ we have } f(x) = x^2.$$

EXAMPLES 11A

1 Determine whether these mappings are functions.

a $x \mapsto \frac{1}{x}$ **b** $x \mapsto y$ where $y^2 - x = 0$

a For any value of x , except $x = 0$, $\frac{1}{x}$ has a single value,
therefore $x \mapsto \frac{1}{x}$ is a function provided that $x = 0$ is excluded.

Note that $\frac{1}{0}$ is meaningless, so to make this mapping a function we have to exclude 0 as an input value. The function can be described by $f(x) = \frac{1}{x}$, $x \neq 0$.

b If, as an example, we input $x = 4$, then the output is the value of y given by $y^2 - 4 = 0$ i.e. $y = 2$ and $y = -2$.
Therefore an input gives more than one value for the output, so $x \mapsto y$ where $y^2 - x = 0$ is not a function.

2 If $f(x) = 2x^2 - 5$, find $f(3)$ and $f(-1)$.

As $f(x)$ is the output of the mapping, $f(3)$ is the output when 3 is the input, i.e. $f(3)$ is the value of $2x^2 - 5$ when $x = 3$.

$$f(3) = 2(3)^2 - 5 = 13$$

$$f(-1) = 2(-1)^2 - 5 = -3$$

EXERCISE 11A

1 Determine which of these mappings are functions.

a $x \mapsto 2x - 1$

b $x \mapsto x^3 + 3$

c $x \mapsto \frac{1}{x-1}$

d $x \mapsto t$ where $t^2 = x$

e $x \mapsto \sqrt{x}$

f $x \mapsto$ the length of the line from the origin to $(0, x)$.

g $x \mapsto$ the greatest integer less than or equal to x .

h $x \mapsto$ the height of a triangle whose area is x .

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1. Understanding the eBook Apex Learning Algebra 1 Semester 1 Answers
 - The Rise of Digital Reading Apex Learning Algebra 1 Semester 1 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Apex Learning Algebra 1 Semester 1 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Apex Learning Algebra 1 Semester 1 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Apex Learning Algebra 1 Semester 1 Answers
 - Personalized Recommendations
 - Apex Learning Algebra 1 Semester 1 Answers User Reviews and Ratings
 - Apex Learning Algebra 1 Semester 1 Answers and Bestseller Lists
5. Accessing Apex Learning Algebra 1 Semester 1 Answers Free and Paid eBooks
 - Apex Learning Algebra 1 Semester 1 Answers Public Domain eBooks
 - Apex Learning Algebra 1 Semester 1 Answers eBook Subscription Services
 - Apex Learning Algebra 1 Semester 1 Answers Budget-Friendly Options

6. Navigating Apex Learning Algebra 1 Semester 1 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Apex Learning Algebra 1 Semester 1 Answers Compatibility with Devices
 - Apex Learning Algebra 1 Semester 1 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Apex Learning Algebra 1 Semester 1 Answers
 - Highlighting and Note-Taking Apex Learning Algebra 1 Semester 1 Answers
 - Interactive Elements Apex Learning Algebra 1 Semester 1 Answers
8. Staying Engaged with Apex Learning Algebra 1 Semester 1 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Apex Learning Algebra 1 Semester 1 Answers
9. Balancing eBooks and Physical Books Apex Learning Algebra 1 Semester 1 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Apex Learning Algebra 1 Semester 1 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Apex Learning Algebra 1 Semester 1 Answers
 - Setting Reading Goals Apex Learning Algebra 1 Semester 1 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Apex Learning Algebra 1 Semester 1 Answers
 - Fact-Checking eBook Content of Apex Learning Algebra 1 Semester 1 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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