

Algebra 1

Is It a Function

Is It a Function | A1-U04-P02

96 problems · Four activity formats

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Topic focus

Across 96 tasks this topic asks for complete function or impossibility proof, corrected judgment with decisive evidence, definition-based justification, function verdict with decisive evidence, two function verdicts with decisive evidence and valid repair or impossibility with evidence.

8 PDFs and a README; 125 buyer pages.

Algebra 1**Is It
a Function**

Name: _____ **Date:** _____ **Class:** _____

Answer each question and record a bank letter whose complete statement correctly answers that question. A letter may be used more than once or not at all. Give exact values and all reasoning requested by the question; a letter alone is not the whole requested response.

The declared domain is empty and the complete arrow list is empty. Does the function condition hold?

Bank label: _____

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Answer each question and show your reasoning in the workspace. Give exact values rather than decimals unless the question supplies a decimal. Give the whole requested response, including any reasoning the question asks for.

Can a function satisfy a pair that appears on both the required and forbidden lists?

After consolidating exact duplicate rows, decide whether a genuine conflict remains.

Input	Output
3	4
3	4
6	8
9	1
6	8
3	-4

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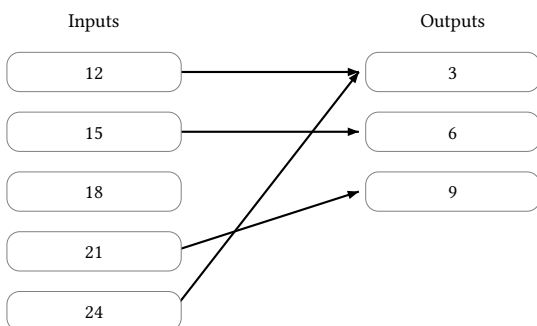
Is It
a Function

Name: _____ Date: _____ Class: _____

Begin at START. Answer the card completely, then match the entire answer and reasoning to another card's Incoming statement. Use the recording sheet for your reasoning. Visit each card once and continue to FINISH.

Incoming: No. For example, $x = 2$ gives the included points $(2, 2)$ and $(2, -2)$. Reasoning: Excluding the origin does not remove the two intersections at every positive x .

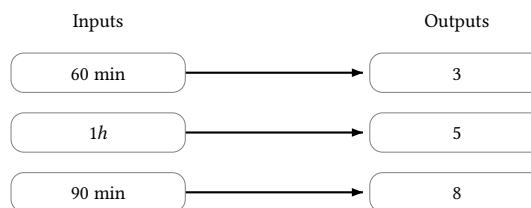
Scan all five declared inputs instead of judging only the drawn arrows.



Your response: _____

Incoming: Not a function on the stated domain; input 18 is unassigned. Reasoning: The four valid arrows do not compensate for the missing output at 18.

Interpret the declared domain as exact durations before testing output uniqueness.



Your response: _____

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Name: _____ Date: _____ Class: _____

Evaluate the supplied statement or method. Say whether it is correct, repair it if it is not, and verify the result exactly. Not every prompt contains an error.

Diagnose the error in the table verdict and give the corrected conclusion.

Input	Output
1	6
3	6
8	2

Audit whether row multiplicity creates distinct output values.

Input	Output
4	9
4	9
7	1

Is It a Function

Full Worked Solutions - excerpt

Worked example

Problem. The declared domain is empty and the complete arrow list is empty. Does the function condition hold?

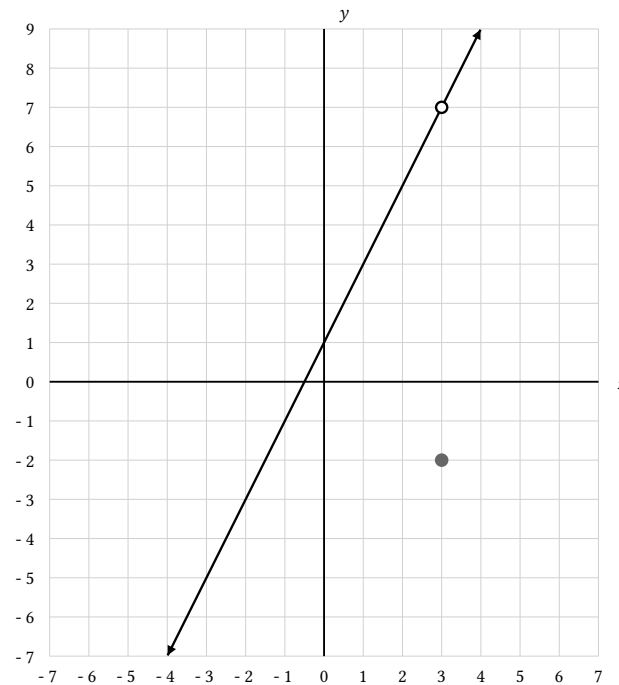
Answer. Yes. There is no declared input that lacks an output or has two outputs.

Explanation and check.

The one-output requirement is satisfied vacuously on the empty domain.

Worked example

Problem. The line has a hole and a replacement point at the same x . Apply the vertical line test to what is included.



Answer. Function. At $x = 3$ only $(3, -2)$ is included; all other x -values lie once on the line.

Explanation and check.

The open point $(3, 7)$ is not an intersection, so the closed replacement supplies one output.