

Domain and Range

Learning Objectives

- Find the domain of a function defined by an equation
 - Find the domain of a function defined by a graph
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Find the domain of a function defined by an equation

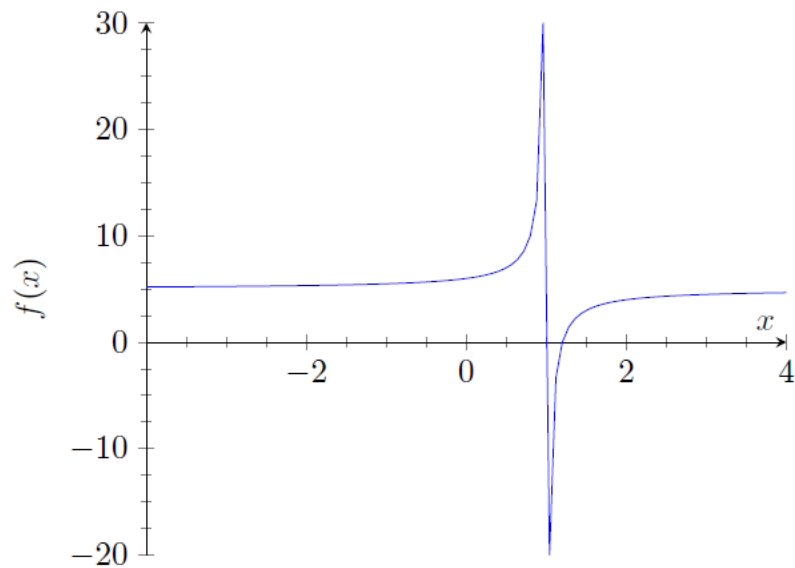
1. Find the domain of the functions:

a. $f(x) = \frac{x^2+3x}{x^2-1}$

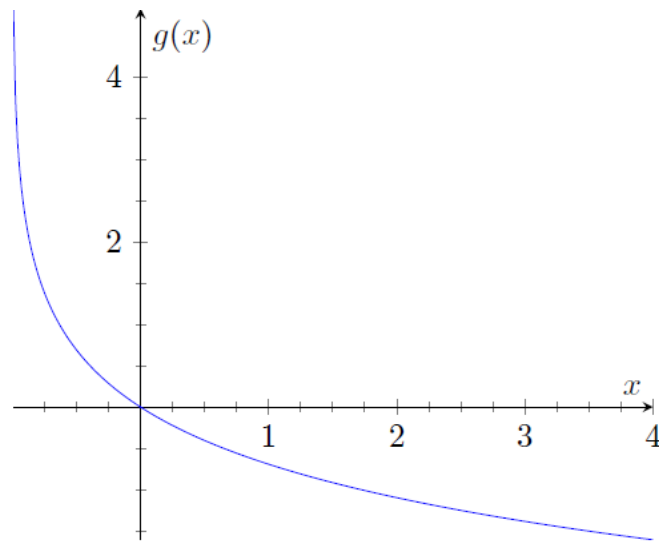
b. $g(x) = \sqrt{x-4}$

Find the domain of a function defined by a graph

2. Find the domain of the function in each graph.



a.



b.

ANSWER KEY

1. a. $x \neq -1, 1$ or $(-\infty, -1) \cup (-1, 1) \cup (1, \infty)$; b. $x \geq 4$ or $[4, \infty)$
2. a. $x \neq 1$ or $(-\infty, 1) \cup (1, \infty)$; b. $x > -1$ or $(-1, \infty)$