

17.0 Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.

Key Vocabulary

Range
Graph

Domain
Ordered Pair

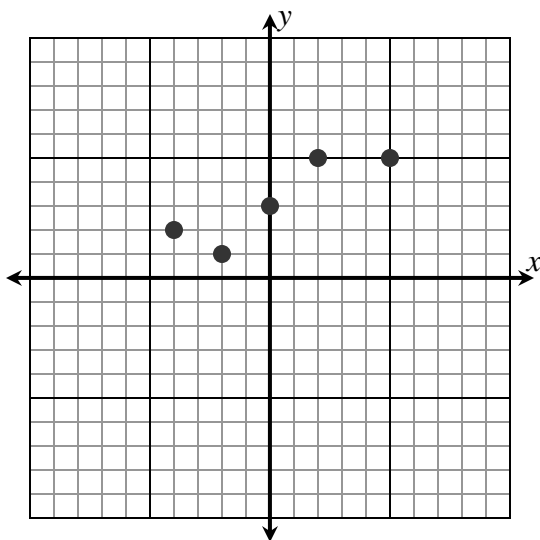
Independent Variables

Dependent Variables

Instructional Objectives

1 State the independent variable, dependent variable, range, and domain of a function.

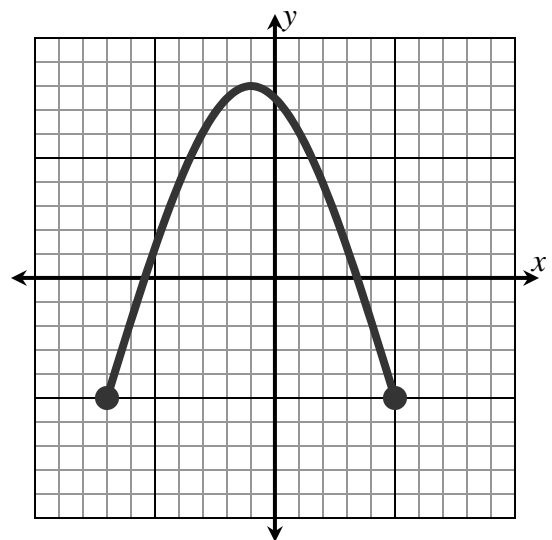
3 State the independent and dependent variable, range, and domain of the function shown.



1 What are the independent variable, dependent variable, range, and domain of the function: $y = 3x - 9$?

2 What are the independent variable, dependent variable, range, and domain of the function: $\{(-2, -2), (0, 0), (1, 1), (5, 5)\}$?

4 State the independent and dependent variable, range, and domain of the function shown.



2 Identify graphs that meet given conditions of range, domain, x-values, and y-values.

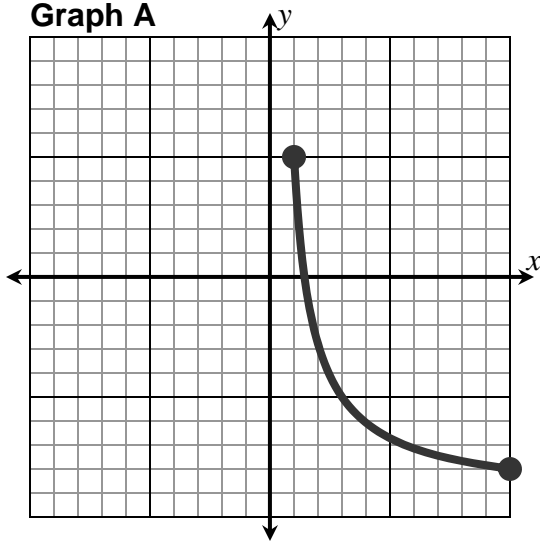
1 In which graph are all y-values positive?

2 In which graph are all x-values positive?

3 Which graph has a domain of $-9 \leq x \leq 9$?

4 Which graph has a range of $2 \leq y \leq 8$?

Graph A



Graph B

