

Name \_\_\_\_\_ Date \_\_\_\_\_

## A Sort of Sorts

### Analyzing and Sorting Graphs

#### Vocabulary

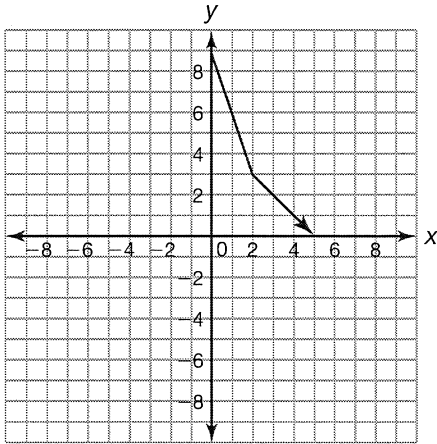
Match each definition to its corresponding term.

1. A graph with no breaks in it	a. discrete graph
2. The mapping between a set of inputs and a set of outputs	b. continuous graph
3. The set of all input values of a relation	c. relation
4. The set of all output values of a relation	d. function
5. A graph of isolated points	e. domain
6. A visual method used to determine whether a relation represented as a graph is a function	f. range
7. A relation between a given set of elements for which each input value there exists exactly one output value	g. Vertical Line Test

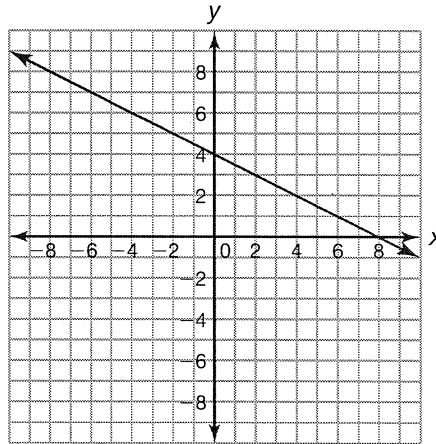
Problem Set

Each pair of graphs has been grouped together. Provide a rationale to explain why these graphs may have been grouped together.

1. Graph A



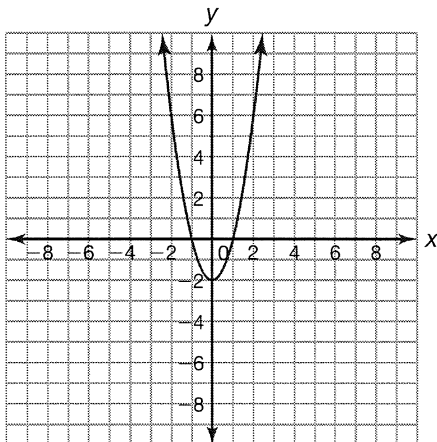
Graph B



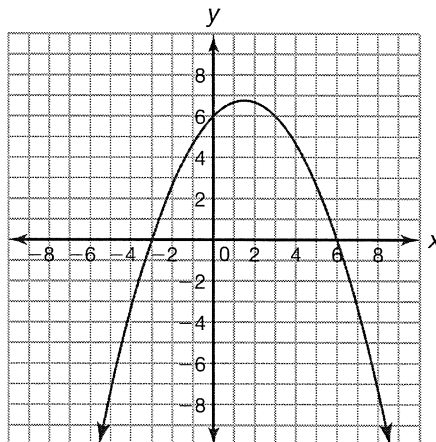
Answers will vary.

Both graphs are always decreasing from left to right. Both graphs are functions. Both graphs are made up of straight lines.

2. Graph A

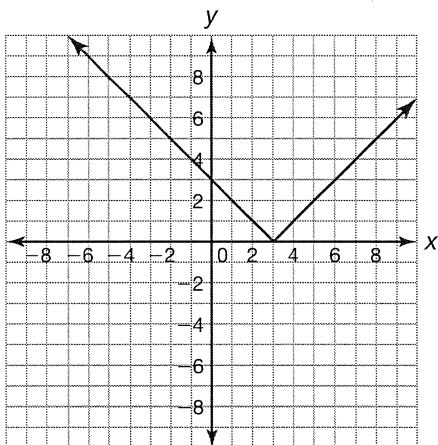


Graph B

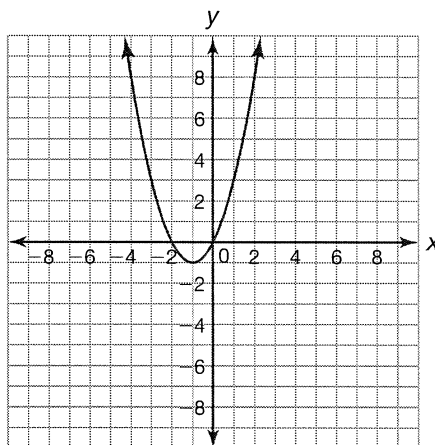


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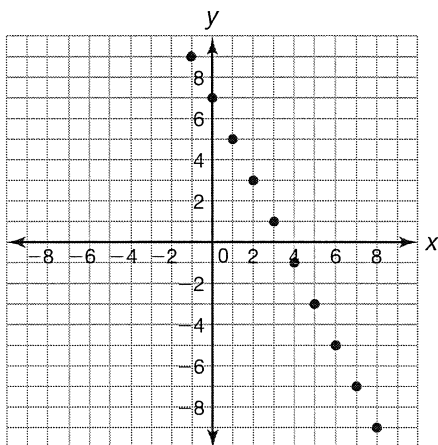
3. Graph A



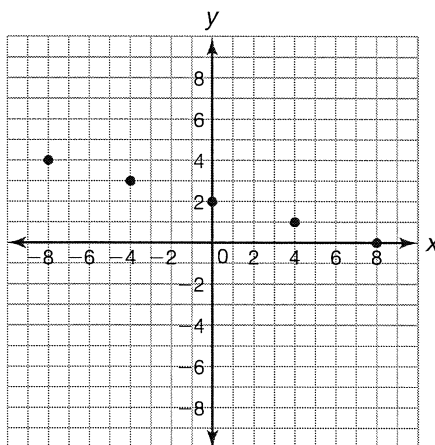
Graph B

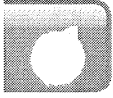


4. Graph A

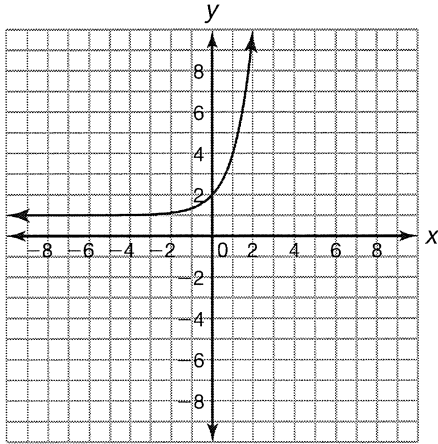


Graph B

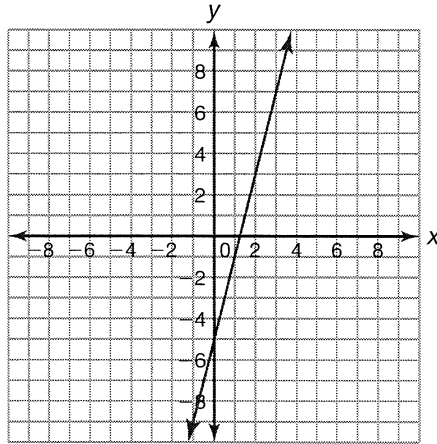




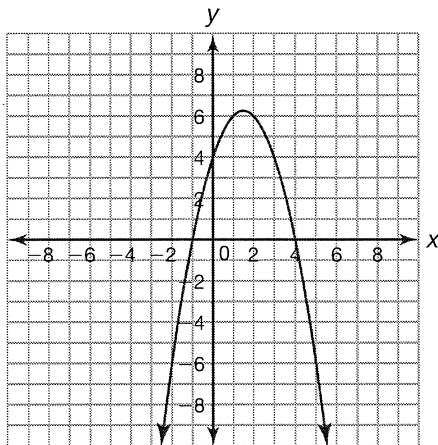
5. Graph A



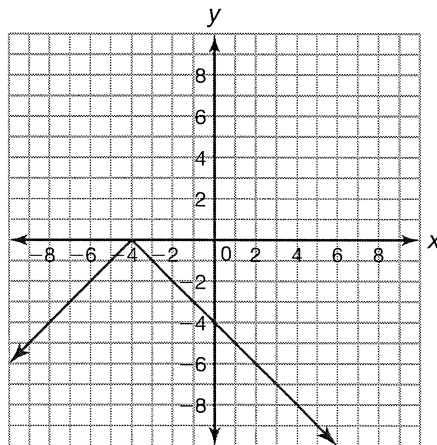
Graph B



6. Graph A



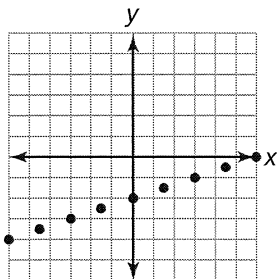
Graph B



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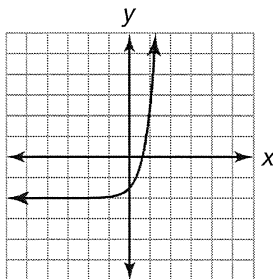
Determine whether the graph is discrete or continuous.

7.

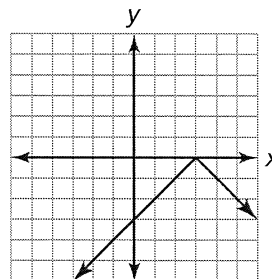


The graph is discrete.

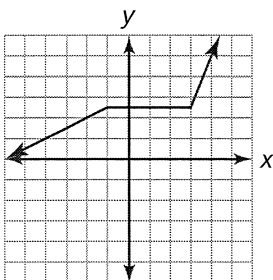
8.



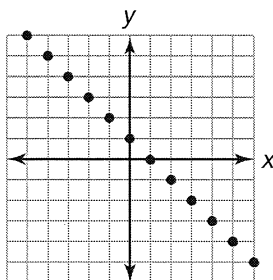
9.



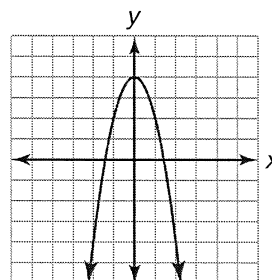
10.



11.

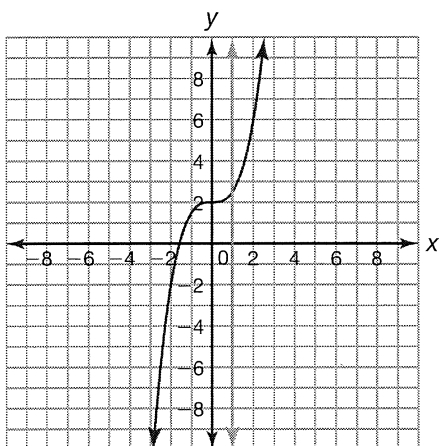


12.



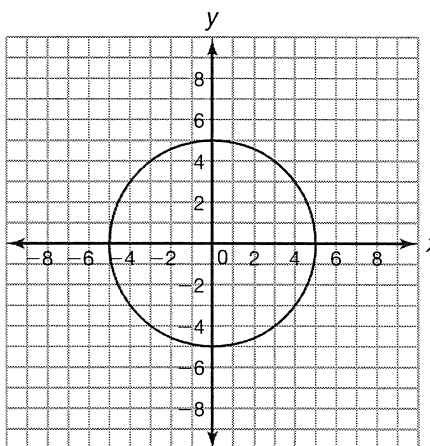
Determine if each graph represents a function by using the Vertical Line Test.

13.

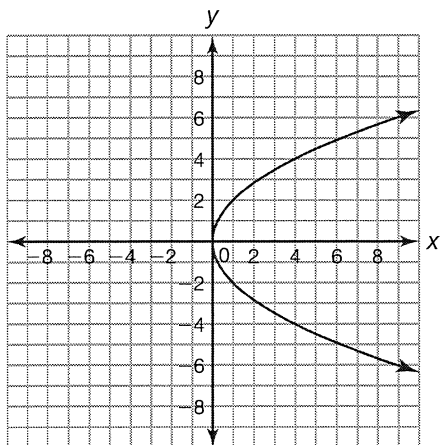


Yes. The graph is a function.

14.



15.



16.

