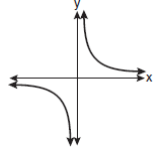1.   Which graph does *not* represent a function?

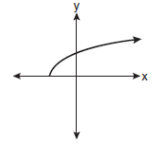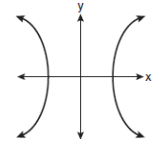(a)   (b)

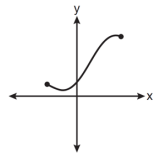(c)   (d)

2.   Which graph does *not* represent a function?
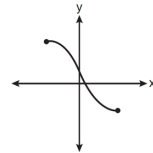
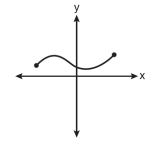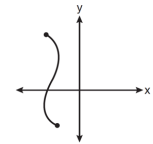(a)   (b)

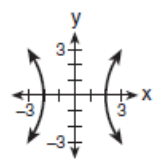(c)   (d)

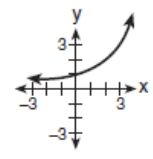3.   Which graph is *not* a function?

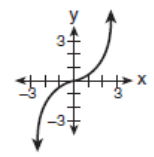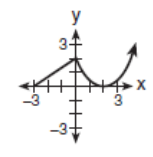(a)   (b)

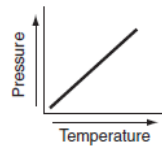(c)   (d)

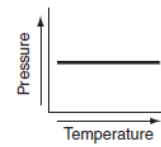4.   Each graph below represents a possible relationship between temperature and pressure. Which graph does *not* represent a function?

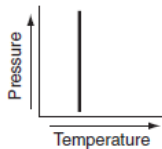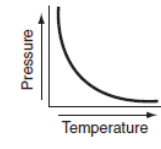(a)   (b)

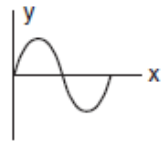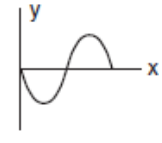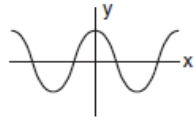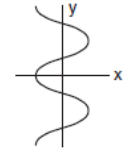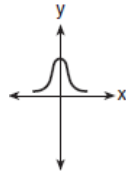(c)   (d)

5. Which graph does *not* represent a function?

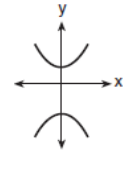(a)

(b)

(c)

(d)

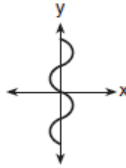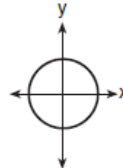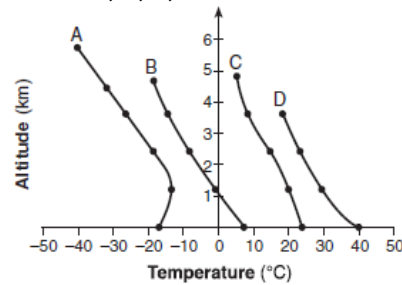6. Which graph represents a function?

(a)

(b)

(c)

(d)

7. The accompanying graph shows the curves of best fit for data points comparing temperature to altitude in four different regions, represented by the relations *A*, *B*, *C*, and *D*.

Which relation is *not* a function?

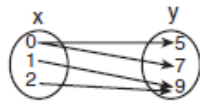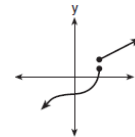(a)   A   (b)   B   (c)   C   (d)   D

8. Which diagram represents a relation in which each member of the domain corresponds to only one member of its range?
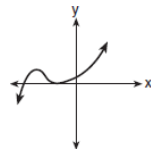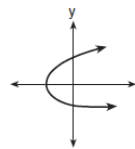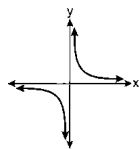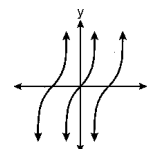
(a)

(b)

(c)

(d)

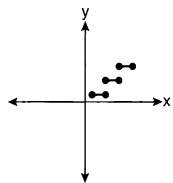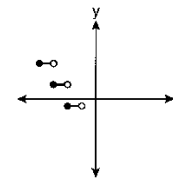9. Which graph represents a relation that is *not* a function?

(a)

(b)

(c)

(d)

10. Which set of ordered pairs is *not* a function?

(a) {(1,2), (3,4), (4,5), (5,6)}

(b) {(4,1), (5,1), (6,1), (7,1)}

(c) {(3,1), (2,1), (1,2), (3,2)}

(d) {(0,0), (1,1), (2,2), (3,3)}

11. Which set of ordered pairs does *not* represent a function?

(a) {(3,-2), (3,-4), (4,-1), (4,-3)}

(b) {(3,-2), (4,-3), (5,-4), (6,-5)}

(c) {(3,-2), (-2,3), (4,-1), (-1,4)}

(d) {(3,-2), (5,-2), (4,-2), (-1,-2)}

12. On the accompanying diagram, draw a mapping of a relation from set A to set B that is *not* a function. Explain why the relationship you drew is *not* a function.

Set A

1 ®

2 ®

3 ®

Set B

® a

® b

® c

13. Draw a mapping diagram for the following relation: {(3, -1), (6, -1), (3, -2), (6, -2)} and tell whether the relation is a function or not.

Function? Yes _____ or No _____