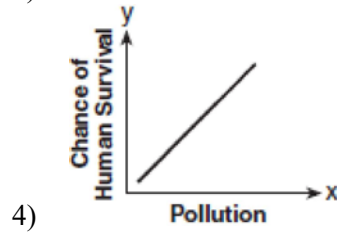
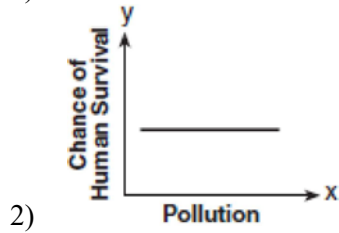
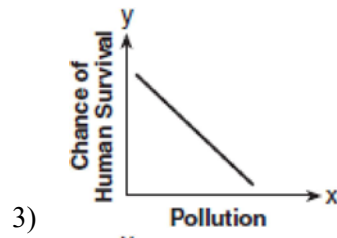
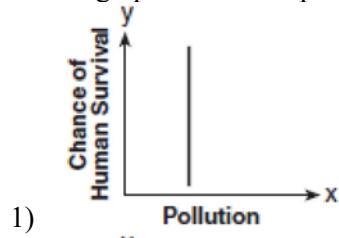
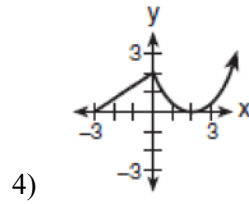
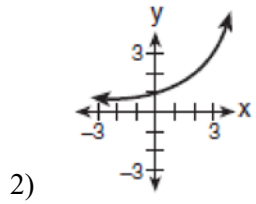
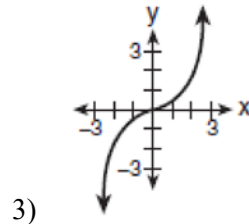
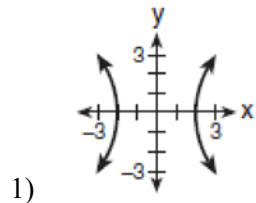


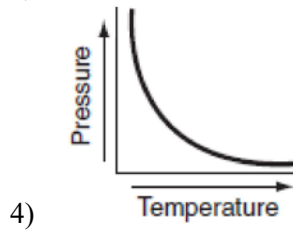
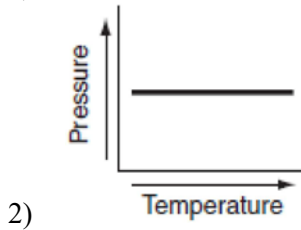
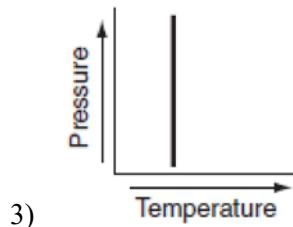
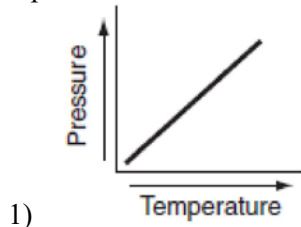
3 Which graph does *not* represent a function of x ?



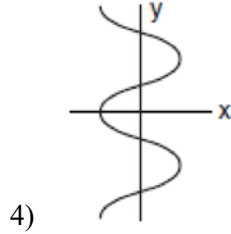
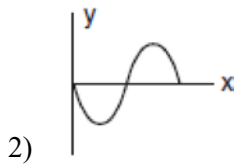
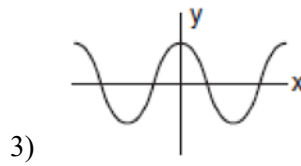
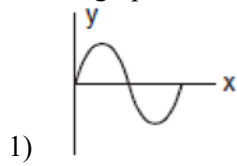
4 Which graph is *not* a function?



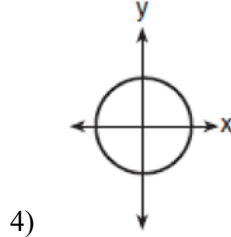
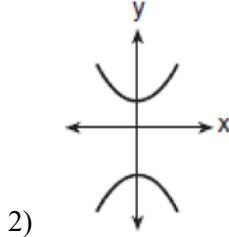
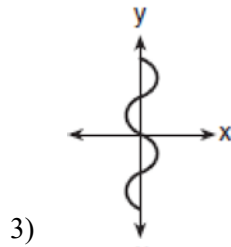
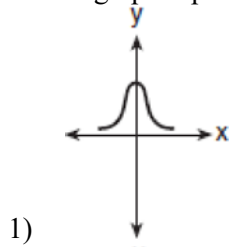
5 Each graph below represents a possible relationship between temperature and pressure. Which graph does *not* represent a function?



6 Which graph does *not* represent a function?



7 Which graph represents a function?



8 Which set of ordered pairs is *not* a function?

- | | |
|-------------------------------------|-------------------------------------|
| 1) $\{(3,1), (2,1), (1,2), (3,2)\}$ | 3) $\{(1,2), (3,4), (4,5), (5,6)\}$ |
| 2) $\{(4,1), (5,1), (6,1), (7,1)\}$ | 4) $\{(0,0), (1,1), (2,2), (3,3)\}$ |

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

- | | |
|---|--|
| 1) $\{(3,-2), (-2,3), (4,-1), (-1,4)\}$ | 3) $\{(3,-2), (4,-3), (5,-4), (6,-5)\}$ |
| 2) $\{(3,-2), (3,-4), (4,-1), (4,-3)\}$ | 4) $\{(3,-2), (5,-2), (4,-2), (-1,-2)\}$ |

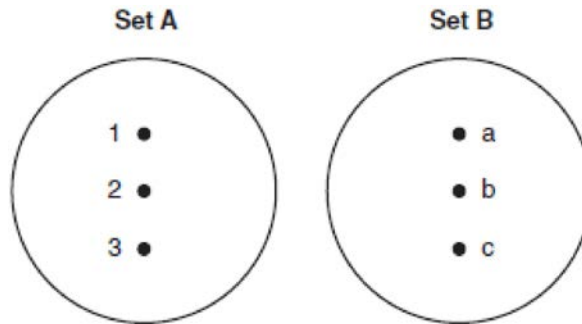
10 The relation defined by the set of ordered pairs $\{(0,2), (-2,2), (1,4), (4,1), (0,-1)\}$ is *not* a function. Which of the ordered pairs listed below, if omitted from this relation, will make the resulting set a function?

- | | |
|--------------|-------------|
| 1) $(-2,-2)$ | 3) $(4,1)$ |
| 2) $(1,4)$ | 4) $(0,-1)$ |

11 Given the relation $R = \{(-2,3), (a,4), (1,9), (0,7)\}$. Which replacement for a makes this relation a function?

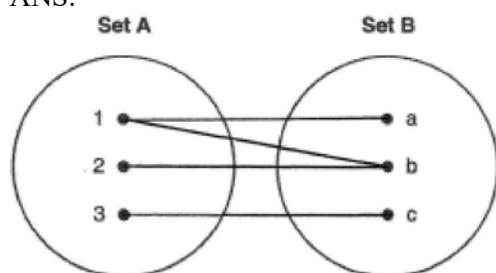
- | | |
|-------|------|
| 1) 1 | 3) 0 |
| 2) -2 | 4) 4 |

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.



F.IF.A.1: Defining Functions 3
Answer Section

- 1 ANS: 1 REF: 060902b
2 ANS: 3 REF: 060310b
3 ANS: 1 REF: 080301b
4 ANS: 1 REF: 010511b
5 ANS: 3 REF: 060601b
6 ANS: 4 REF: 010213siii
7 ANS: 1 REF: 060320siii
8 ANS: 1 REF: 080403b
9 ANS: 2 REF: 060715b
10 ANS: 4 REF: 018530siii
11 ANS: 4 REF: 068634siii
12 ANS:



The relationship is not a function because an element in Set A maps to two different elements in Set B.

REF: 010622b