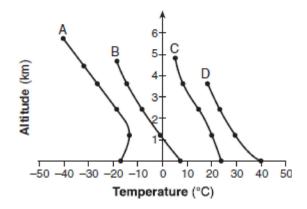
F.IF.A.1: Defining Functions 3

1 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.

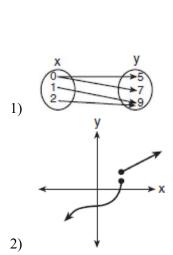


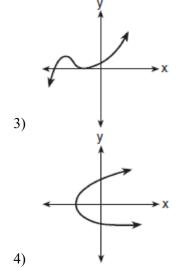
Which relation is *not* a function?

- 1) *A*
- 2) B

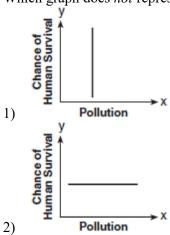
- 3) *C*
- 4) *D*

2 Which diagram represents a relation in which each member of the domain corresponds to only one member of its range?





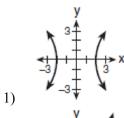
Which graph does *not* represent a function of *x*?



Chance of Urvival Human Survival A Pollinton

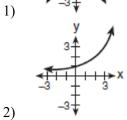
Chance of Human Survival Pollution

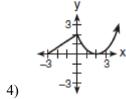
4 Which graph is *not* a function?



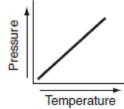
3)

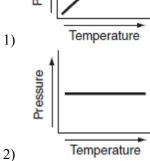
4)

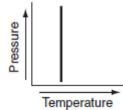


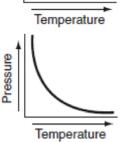


5 Each graph below represents a possible relationship between temperature and pressure. Which graph does *not* represent a function?









6 Which graph does *not* represent a function?

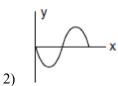




3)

4)



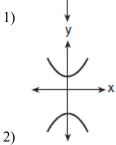


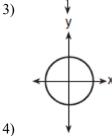


7 Which graph represents a function?









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)

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

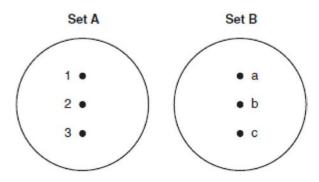
1) 1

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:	_		
		C-4 A		O-4 D

Set A Set B

two different elements in Set B.

REF: 010622b

The relationship is not a function because an element in Set A maps to