

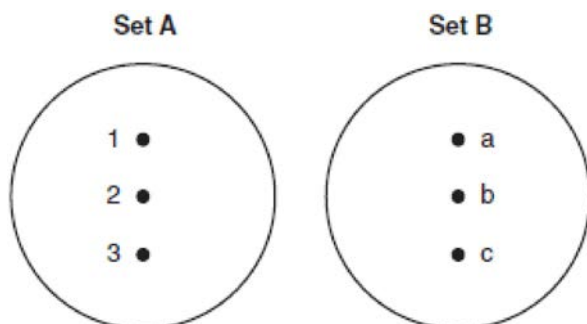
A2.A.37: Defining Functions: Define a relation and function

- 1 Given the relation $\{(8, 2), (3, 6), (7, 5), (k, 4)\}$, which value of k will result in the relation *not* being a function?
 - 1) 1
 - 2) 2
 - 3) 3
 - 4) 4

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

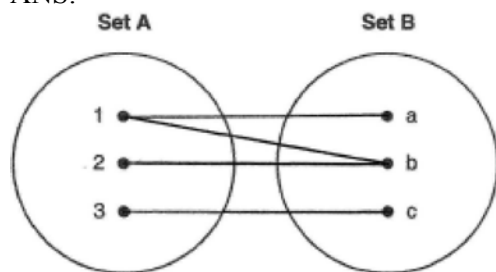
- 3 Given the relation $R = \{(-2, 3), (a, 4), (1, 9), (0, 7)\}$. Which replacement for a makes this relation a function?
 - 1) 1
 - 2) -2
 - 3) 0
 - 4) 4

- 4 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.



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Answer Section

- 1 ANS: 3 REF: 011305a2
2 ANS: 4 REF: 018530siii
3 ANS: 4 REF: 068634siii
4 ANS:



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

REF: 010622b