Related Questions with Solutions

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Questions
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Quetion: 01

Let $R = \{(1,3), (4,2), (2,4), (2,3), (3,1)\}$ be a relation on the set $A = \{1,2,3,4\}$. The relation is-A. transitive B. not symmetric C. reflexive D. a function

Solutions

Solution: 01

Given R = {[1, 3], [4, 2], [2, 4], [2, 3], [3, 1]} be a relation on the set A = {1, 2, 3, 4}.
[A] Since, [1, 3] L R and [3, 1] L R but [1, 1] [R. So, R is not transitive.
[B] Since, [2, 3] L R but [3, 2] [R. So, R is not Symmetric.
[C] Since, [1, 1], [2, 2], [3, 3], [4, 4] [R. So, R is not reflexive.
[D] Since, [2, 4] L R and [2, 3] L R So, R is not a function

Correct Options

Answer:01 Correct Options: B