## Answer on Question \#58728 - Math - Discrete Mathematics

## Question

What makes $A=\{1,2,4,5\}$ and $B=\{2,3,6,7\}$ not disjoint?

## Solution

In mathematics, two sets are said to be disjoint if they have no element in common.
For example, $\{1,2,3\}$ and $\{4,5,6\}$ are disjoint sets, while $\{1,2,3\}$ and $\{3,4,5\}$ are not.
The element 2 is in both sets, because $\mathrm{A} \cap \mathrm{B}=2$.
The element 2 makes $A=\{1,2,4,5\}$ and $B=\{2,3,6,7\}$ not disjoint.
Answer: the element 2.

