Related Questions with Solutions

Questions

Quetion: 01

Let $x = \{1, 2, 3, 4\}$ and $Y = \{1, 3, 5, 7, 9\}$. Which of the following is relations from x to Y -

A. $R_1 = \{(x, y)/y = 2 + x, x \in X, y \in Y\}$
B. $R_2 = \{(1, 1), (2, 1), (3, 3), (4, 3), (5, 5)\}$
C. $R_3 = \{(1, 1), (1, 3), (3, 5), (3, 7), (5, 7)\}$
D. $R_4 = \{(1, 3), (2, 5), (2, 4), (7, 9)\}$

Solutions

Solution: 01

Q   x = {1, 2, 3, 4}
          y = {1, 3, 5, 7, 9}

Q [5, 5]$\lfloor$ R$_2$

While, 5 $\lceil$ X
So, R$_2$ is not a relation from X to Y.

Q [5, 7]$\in$ R$_3$

While, 5 $\lceil$ X
So, R$_3$ is not a relation from X to Y.

Q [7, 9]$\lfloor$ R$_4$

While 7 $\lceil$ X
So, R$_4$ is not a relation from X to Y.

Correct Options

Answer:01
Correct Options: D