Answer on Question #51207 – Math – Discrete Mathematics

A relation R defined on a set S is said to be …… if bRa $\forall a,b \in S$.
a. transitive
b. reflexive
c. symmetric
d. none of the above

Solution

A relation R defined on a set S is said to be

- **i.** reflexive if we have aRa $\forall\ a \in S$.
- **ii.** symmetric if aRb $\Rightarrow$ bRa $\forall a, b \in S$.
- **iii.** transitive if aRb and bRc $\Rightarrow$ aRc $\forall a, b, c \in S$.

Answer: d. none of the above.