Let $P = \{(x, y) | x^2 + y^2 = 1, x, y \in R\}$. Then, P is (a) Reflexive (b) Symmetric (c) Transitive (d) Anti-symmetric

Ans. B)

Soln. (x,x) doesn't hold the condition $x^2+y^2=1$; x,y $\in \mathbb{R}$;

So, not reflexive.

If (x1,x2) is a solution, (x2,x1) is a solution too, i.e. symmetric.

If x1,x2 is a solution, x2,x3 is a solution, x1,x3 doesn't necessarily be a solution,.