Question

Which of the following statement are True?1. If (R, *_1 ,*_2) is a ring ,then psi : R ×R --> psi (r_1 , r_2) = r_1 *_2 r_1 is a binary operation?

Solution

For all $r_1 \in R$ $r_1 *_2 r_1 \in R$, then $\psi : R \times R \rightarrow R$. Hence ψ is a binary operation.

Answer: the statement is true.