Important Relations and Functions Formulas PDF







2.11) Number of Symmetric Relations on Set A Formula 🕝

 $N_{\text{Symmetric Relations}} = 2 \frac{n_{(A)} \cdot \left(n_{(A)} + 1\right)}{2}$

Example
$64 = 2^{\frac{3 \cdot (3+1)}{2}}$

Evaluate Formula



Variables used in list of Relations and Functions Formulas above

- n(A) Number of Elements in Set A
- n(B) Number of Elements in Set B
- NAntisymmetric Relations No. of Antisymmetric Relations on A
- NAsymmetric Relations Number of Asymmetric Relations
- NBijective Functions Number of Bijective Functions from A to B
- NFunctions Number of Functions from A to B
- NInjective Functions Number of Injective Functions from A to B
- NIrreflexive Relations Number of Irreflexive Relations
- Non Empty Relations Number of Non Empty Relations from A to B
- NReflexive & Antisymmetric No. of Reflexive and Antisymmetric Relations on A
- N_{Reflexive & Symmetric No.} of Reflexive and Symmetric Relations on A
- NReflexive Relations Number of Reflexive Relations on Set A
- N_{Relations not Functions} No. of Relations A to B which are not Functions
- NRelations(A) Number of Relations on A
- NRelations(A-B) Number of Relations from A to B
- NSymmetric & Antisymmetric No. of Symmetric and Antisymmetric Relations on A
- Nsymmetric Relations Number of Symmetric Relations on Set A

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