- SET
- Mathematical induction
- Relation
- Binary operations
- Show that- $(P \cap Q) X (R \cap S) = (PXR) \cap (QXS)$
- prove that – $(A \cap B) X (C \cap D) = (AXC) \cap (BXD)$
- Prove that- $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
- prove that- $AX(B \cap C) = (AXB) \cap (AXC)$
- Binary operations
- Group
- Algebraic structure
- Show that $(..., -4, -3, -2, -1, 0, 1, 2, 3, 4,...\}$ is group
- Show that $a*b=b*a$
- if $a*c = c*a$ and $b*c = c*b$, then $(a*b)*c = c*(a*b)$

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