Centum Preparation 100 Days plan class 12 Maths

Q.No.	DAY - 77
480	**Example 12.6** Verify (i) closure property (ii) commutative property, and (iii) associative property of the following operation on the given set. $(a*b)=a^b;\forall a,b\in\mathbb{N}$ (exponentiation property)
481	**Example 12.7** Verify (i) closure property, (ii) commutative property, (iii) associative property, (iv) existence of identity, and (v) existence of inverse for following operation on the given set. $m*n=m+n-mn;\ m,n\in\mathbb{Z}$
482	**Example 12.8** Let $A=\begin{bmatrix}0 & 1\\ 1 & 1\end{bmatrix}$, $B=\begin{bmatrix}1 & 1\\ 0 & 1\end{bmatrix}$ be any two boolean matrices of the same type. Find $A\vee B$ and $A\wedge B$.
483	**Example 12.9** Verify (i) closure property, (ii) commutative property, (iii) associative property, (iv) existence of identity, and (v) existence of inverse for the operation $+_5$ on $\mathbb{Z}_5$ using table corresponding to addition modulo 5.
484	**Example 12.10** Verify (i) closure property, (ii) commutative property, (iii) associative property, (iv) existence of identity, and (v) existence of inverse for the operation $\times_{11}$ on a subset $A=\{1,3,4,5,9\}$ of the set of remainders $\{0,1,2,3,4,5,6,7,8,9,10\}$.