

Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 79
490	<p>10. (i) Let A be $\mathbb{Q} \setminus \{1\}$. Define $*$ on A by $x * y = x + y - xy$. Is $*$ binary on A? If so, examine the commutative and associative properties satisfied by $*$ on A.</p> <p>(ii) Let A be $\mathbb{Q} \setminus \{1\}$. Define $*$ on A by $x * y = x + y - xy$. Is $*$ binary on A? If so, examine the existence of identity, existence of inverse properties for the operation $*$ on A.</p>
491	<p>Example 12.13</p> <p>How many rows are needed for following statement formulae?</p> <p>(i) $p \vee \neg t \wedge (p \vee \neg s)$ (ii) $((p \wedge q) \vee (\neg r \vee \neg s)) \wedge (\neg t \wedge v)$</p>
492	<p>Example 12.16</p> <p>Construct the truth table for $(p \bar{\vee} q) \wedge (p \bar{\vee} \neg q)$.</p>
493	<p>Example 12.17</p> <p>Establish the equivalence property: $p \rightarrow q \equiv \neg p \vee q$</p>
494	<p>Example 12.18</p> <p>Establish the equivalence property connecting the bi-conditional with conditional: $p \leftrightarrow q \equiv (p \rightarrow q) \wedge (q \rightarrow p)$</p>