

Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 76
475	<p>Example 12.1</p> <p>Examine the binary operation (closure property) of the following operations on the respective sets (if it is not, make it binary):</p> <p>(i) $a * b = a + 3ab - 5b^2; \forall a, b \in \mathbb{Z}$ (ii) $a * b = \left(\frac{a-1}{b-1} \right), \forall a, b \in \mathbb{Q}$</p>
476	<p>Example 12.2</p> <p>Verify the (i) closure property, (ii) commutative property, (iii) associative property (iv) existence of identity and (v) existence of inverse for the arithmetic operation $+$ on \mathbb{Z}.</p>
477	<p>Example 12.3</p> <p>Verify the (i) closure property, (ii) commutative property, (iii) associative property (iv) existence of identity and (v) existence of inverse for the arithmetic operation $-$ on \mathbb{Z}.</p>
478	<p>Example 12.4</p> <p>Verify the (i) closure property, (ii) commutative property, (iii) associative property (iv) existence of identity and (v) existence of inverse for the arithmetic operation $+$ on $\mathbb{Z}_e =$ the set of all even integers.</p>
479	<p>Example 12.5</p> <p>Verify the (i) closure property, (ii) commutative property, (iii) associative property (iv) existence of identity and (v) existence of inverse for the arithmetic operation $+$ on $\mathbb{Z}_o =$ the set of all odd integers.</p>