Mathematical Reasoning - Class XI

Past Year JEE Questions

Questions

Quetion: 01

Consider the statement "The match will be played only if the weather is good and ground is not wet". Select the correct negation from the following:

- A. The match will not be played and weather is not good and ground is wet.
- B. If the match will not be played, then either weather is not good or ground is wet.
- C. The match will be played and weather is not good or ground is wet.
- D. The match will not be played or weather is good and ground is not wet.

Solutions

Solution: 01

Explanation

p: weather is good

q: ground is not wet

$$\sim (p \land q) \equiv \sim p \lor \sim q$$

≡ weather is not good or ground is wet