Maths Formula Sheet

Chapter by chapter, topic by topic. Written by the PadhoNa team for quick revision.

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CHAPTER 32

Mathematical Reasoning

Statements and connectives

$$p \to q \equiv \sim p \vee q; \qquad \sim (p \wedge q) \equiv \sim p \vee \sim q; \qquad \sim (p \vee q) \equiv \sim p \wedge \sim q$$

CONTRAPOSITIVE

$$p \to q \equiv \sim q \to \sim p$$

Not in the current JEE Main syllabus; kept for older papers.

$$p \leftrightarrow q \equiv (p \to q) \wedge (q \to p); \qquad \sim (p \to q) \equiv p \wedge \sim q$$

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