

(b) equivalent to $p \Rightarrow r$

27. Let p, q, r denote arbitrary statements. Then the logically equivalent of the statement $p \Rightarrow (q \vee r)$ is:

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- (a) $(p \vee q) \Rightarrow r$
- (b) $(p \Rightarrow q) \vee (p \Rightarrow r)$
- (c) $(p \Rightarrow \sim q) \wedge (p \Rightarrow r)$
- (d) $(p \Rightarrow q) \wedge (p \Rightarrow \sim r)$

Clearly equivalent to $p \Rightarrow r$

27. (b) Given statement is

$p \Rightarrow (q \vee r)$ which is equivalent to $(p \Rightarrow q) \vee (p \Rightarrow r)$