

[5] A is true if and only if B is true and A is true.

(a) T, F F or F or T

T → F = F
F → T = T

(b) (p → q) → (q → p)

(p → q) → (q → p)
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[V]

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(p → q) → (q → p)

[Concl] True because we know the statement is true in all cases.

(c) p → (p → q)

p → (p → q)

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[Concl]

[V]

(p → q) → (p → q)