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 $(q \vee p) \wedge (q \vee r) \wedge ((\wedge p \vee \sim q) \wedge (\sim p \vee \sim q))$

(qvp) \ (qvr) \ ((\np v. \n~r) \ \n a)

) (qvp) n(qvr) n(~pv~q) n(~pv~q)

required CNF form

) ~ { (pv~q) ~~~3

> {~p(pv~q) v~~~3

 $\Rightarrow \{(\sim p \wedge \sim \sim q) \vee \sim 3$

3 (~ p n q) v x 3

(~PVr) ~ (q, vr) required CNF found

Pennipal Disjunctine Noumal form (PDNF)

For a given formula, an equivalent formula consisting of disjunction of minterns only is known as its "principal disjunction Normal form"



