

Cara Acuan T

$$\begin{aligned} 1. & \neg(\neg(\neg P \wedge \neg Q) \rightarrow (\neg P \leftrightarrow \neg Q)) \wedge \neg(P \rightarrow Q) \\ & \neg(\neg(\neg P \wedge \neg Q) \rightarrow (\neg P \leftrightarrow \neg Q)) \wedge \neg(P \rightarrow Q) = T \\ & \neg(\neg(\neg P \wedge \neg Q) \rightarrow (\neg P \leftrightarrow \neg Q)) = T \wedge \neg(P \rightarrow Q) = T \\ & \neg(P \rightarrow Q) = T \text{ (P=T dan Q=F)} \\ & \neg(F) = T \\ & T = T \end{aligned}$$

$$\begin{aligned} & \neg(\neg(\neg P \wedge \neg Q) \rightarrow (\neg P \leftrightarrow \neg Q)) = T \\ & \neg(\neg(\neg T \wedge \neg F) \rightarrow (\neg T \leftrightarrow \neg F)) = T \\ & \neg(\neg(F \wedge T) \rightarrow (F \leftrightarrow T)) = T \\ & \neg(\neg(F) \rightarrow (F)) = T \\ & \neg(T \rightarrow F) = T \\ & \neg(F) = T \\ & T = T \end{aligned}$$

$$\begin{aligned} & (P=T \text{ dan } Q=F) \\ & (P=T \text{ dan } \neg Q=T) \\ & P \wedge \neg Q = T \\ & P \wedge \neg Q \end{aligned}$$

$$\begin{aligned}
 2. \quad & (P \leftrightarrow Q \wedge R) \wedge (P \rightarrow \neg(Q \wedge \neg R)) \wedge \neg(P \vee R) \\
 & (P \leftrightarrow Q \wedge R) \wedge (P \rightarrow \neg(Q \wedge \neg R)) \wedge \neg(P \vee R) = \text{T} \\
 & (P \leftrightarrow Q \wedge R) = \text{T} \wedge (P \rightarrow \neg(Q \wedge \neg R)) = \text{T} \wedge \neg(P \vee R) = \text{T}
 \end{aligned}$$

$$\neg(P \vee R) = \text{T} \text{ (P = F dan R = F)}$$

$$\neg(\text{F}) = \text{T}$$

$$\text{T} = \text{T}$$

$$\text{T}$$

$$(P \leftrightarrow Q \wedge R) = \text{T}$$

$$(\text{F} \leftrightarrow Q \wedge \text{F}) = \text{T}$$

$$(\text{F} \leftrightarrow \text{F}) = \text{T}$$

$$\text{T} = \text{T}$$

$$(P \rightarrow \neg(Q \wedge \neg R)) = \text{T}$$

$$(\text{F} \rightarrow \neg(Q \wedge \neg \text{F})) = \text{T}$$

$$(\text{F} \rightarrow \neg(Q \wedge \text{T})) = \text{T}$$

$$(\text{F} \rightarrow \neg(Q \wedge \text{T})) = \text{T}$$

$$(\text{F} \rightarrow \text{c}(Q)) = \text{T}$$

$$\text{T} = \text{T}$$

$$(P = \text{F dan } R = \text{F})$$

$$(\neg P = \text{T dan } \neg R = \text{T})$$

$$\neg P \wedge \neg R = \text{T}$$

$$\neg P \wedge \neg R$$

$$(P \leftrightarrow Q \wedge R) \wedge (P \rightarrow \neg(Q \wedge \neg R)) \wedge \neg(P \vee R) = \neg P \wedge \neg R$$

$$\begin{aligned}
 3. & (\neg P \wedge \neg Q) \wedge \neg (\neg(P \wedge \neg R)) \\
 & (\neg P \wedge \neg Q) \wedge \neg (\neg(P \wedge \neg R)) = T \\
 & (\neg P \wedge \neg Q) = T \wedge \neg (\neg(P \wedge \neg R)) = T
 \end{aligned}$$

$$\begin{aligned}
 & \neg (P \rightarrow R) = T \text{ (P=T dan R=F)} \\
 & \neg (F) = T \\
 & T = T
 \end{aligned}$$

$$\begin{aligned}
 & (\neg P \wedge \neg Q) = T \\
 & (\neg T \wedge \neg Q) = T \\
 & (F \wedge \neg Q) = T \\
 & F = T \\
 & F
 \end{aligned}$$

$$\begin{aligned}
 & (\neg P \wedge \neg Q) = T \wedge \neg (\neg(P \wedge \neg R)) = T \\
 & F = T \wedge T = T \\
 & F \wedge T = F
 \end{aligned}$$

Kontradiksi