

- 25/1. $(W \cdot X) \supset (Y \cdot Z)$
 2. $\sim [(W \cdot X) \cdot (Y \cdot Z)]$
 3. $(W \cdot X) \supset [(W \cdot X) \cdot (Y \cdot Z)]$ J.N.A. P.A.V.M.

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 2. $\sim [(W \cdot X) \cdot (Y \cdot Z)]$
 3. $\sim (W \cdot X)$
 4. $(W \cdot X) \supset [(W \cdot X) \cdot (Y \cdot Z)]$ ----- 1, Abs.
 5. $\sim (W \cdot X)$ ----- 4, 2, H.T

- 26/1. $A \supset B$
 2. $A \vee C$
 3. $C \supset D$ $\therefore B \vee D$
 4. $(A \supset B) \cdot (C \supset D)$ ----- 1, 3, conj
 5. $B \vee D$ ----- 4, 2, C.D.

- 27/1. $(E \cdot F) \vee (G \supset H)$
 2. $I \supset G$
 3. $\sim (E \cdot F)$ $\therefore I \supset H$
 4. $G \supset H$ ----- 1, 3, D.S.
 5. $I \supset H$ ----- 2, 4, H.S

- 28/1. $\exists x \sim K$
 2. $K \vee (L \supset J)$
 3. $\sim J$ $\therefore L \supset J$
 4. $\sim K$ ----- 1, 3, D.S.
 5. $L \supset J$ ----- 2, 4, D.S

- 30/1. $Q \supset (R \vee S)$
 2. $(T \cdot U) \supset R$
 3. $(R \vee S) \supset (T \cdot U)$ $\therefore Q \supset R$
 4. $Q \supset (T \cdot U)$ ----- 1, 3, H.S
 5. $Q \supset R$ ----- 4, 2, H.S

- 29/1. $(M \supset N) \cdot (O \supset P)$
 2. $N \supset P$
 3. $(N \supset P) \supset (M \vee O)$ $\therefore N \vee P$
 4. $M \vee O$ ----- 3, 2, M.P.
 5. $N \vee P$ ----- 1, 4, C.D