

DERIVATIONS

Help yourself to the first four rules of implication to derive the indicated conclusions.

$$(15) \quad \begin{array}{l} 1. \sim C \supset (A \supset C) \\ 2. \underline{\sim C} \quad \quad \quad / \sim A \end{array}$$

$$(16) \quad \begin{array}{l} 1. (K \cdot B) \vee (L \supset E) \\ 2. \sim(K \cdot B) \\ 3. \underline{\sim E} \quad \quad \quad / \sim L \end{array}$$

$$(17) \quad \begin{array}{l} 1. R \supset (G \vee \sim A) \\ 2. (G \vee \sim A) \supset \sim S \\ 3. G \supset S \\ 4. \underline{R} \quad \quad \quad / \sim A \end{array}$$

$$(18) \quad \begin{array}{l} 1. \sim N \supset [(B \supset D) \supset (N \vee \sim E)] \\ 2. (B \supset E) \supset \sim N \\ 3. B \supset D \\ 4. \underline{D \supset E} \quad \quad \quad / \sim D \end{array}$$