

Name: _____

RoI Worksheet

Prove the following problems using the rules of implication/inference.

- A.
1. $p \vee q$
 2. $p \supset r$
 3. $\sim r \quad /q$

- B.
1. r
 2. $r \supset p$
 3. $q \quad /p \cdot q$

- C.
1. $(a \supset b)$
 2. $a \vee c$
 3. $(c \supset d) \quad /b \vee d$

- D.
1. $\sim x \supset y$
 2. $z \supset \sim x$
 3. $z \quad /y \vee x$

- E.
1. $a \cdot \sim b$
 2. $b \vee c \quad / c \cdot a$

- F.
1. $p \supset q$
 2. $\sim p \supset r$
 3. $\sim q \quad / r \cdot \sim q$

- G.
1. $(a \supset b) \cdot (c \supset d)$
 2. $a \quad / b \vee d$

- H.
1. $p \supset q$
 2. $q \supset (\sim r \vee s)$
 3. $p \quad / \sim r \vee s$