

Name: _____

Arguments Practice

For each argument below, completely write out its truth table and determine whether it is valid or invalid.

1. $A \vee B$
 $B \quad \therefore A$
INVALID
2. $A \supset B$
 $B \cdot C \quad \therefore C$
VALID
3. $Q \equiv P$
 $R \cdot Q \quad \therefore P$
VALID
4. $H \vee J$
 $J \supset H$
 $\sim J \quad \therefore H$
VALID
5. $A \vee B$
 $B \vee C$
 $C \quad \therefore A \supset B$
INVALID
6. $J \cdot K$
 $L \supset K \quad \therefore L \supset J$
VALID
7. $Q \vee P$
 $P \supset Q$
 $\sim P \quad \therefore Q \supset P$
INVALID
8. $C \supset A$
 $A \cdot B \quad \therefore B \cdot C$
VALID
9. $A \supset B$
 $B \supset A \quad \therefore A \equiv B$
VALID
10. $A \vee (B \vee C)$
 $A \equiv B \quad \therefore C \vee B$
VALID
11. $H \cdot (K \vee L)$
 $H \supset K \quad \therefore L$
INVALID
12. $A \cdot B$
 $B \supset C$
 $A \quad \therefore A \supset C$
VALID