- $\sim ((-p \land q) \lor (\sim p \land \sim q)) \lor (p \land q) \equiv p$
- 2- Construct truth table for the following statement.

1- Prove the following logical equivalence:

$$P \land \sim R \leftrightarrow Q \lor R$$

p∨q

 $p \rightarrow \sim q$

3- Does the following argument form is Valid or Invalid?

 $p \rightarrow r$

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