

3.21.1. Indirect Test of Validity: Simple Problems

For each of the following arguments, use the **indirect test** to show whether or not the argument is **valid**.

1. $\sim P \therefore \sim(P \wedge Q)$

2. $(P \wedge \sim Q) \cdot \sim R \therefore (Q \vee R)$

3. $\sim(P \vee Q) \cdot (R \wedge \sim S) \therefore (Q \vee R)$

4. $\sim(P \wedge Q) \cdot P \therefore \sim Q$

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