

3.23.1. Truth Trees and Validity: Simple Problems

For each of the following arguments, use a **truth tree** to show whether or not the argument is **valid**.

1. $P \therefore (P \vee Q)$

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

3. $P \therefore (P \wedge Q)$

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

5. $Q \cdot R \therefore (Q \wedge R)$

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

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