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|----|---|---------------------|
| 1. | $\top P \rightarrow Q$ | Assumption |
| 2. | $\top Q \rightarrow R$ ✓ | Assumption |
| 3. | $\top \neg R$ ✓ | Assumption |
| 4. | $\perp \neg P$ ✓ | Assumption |
| 5. | $\perp R$ | $\neg\top 3$ |
| 6. | $\top P$ | $\neg\perp 4$ |
| 7. |  | |
| | $\perp Q$ $\top R$ | $\rightarrow\top 2$ |
| | \otimes | |