

|   |                          |                      |
|---|--------------------------|----------------------|
| 1.  | $\top P \rightarrow Q$ ✓ | Assumption           |
| 2.  | $\top Q \rightarrow R$ ✓ | Assumption           |
| 3.  | $\top \neg R$ ✓          | Assumption           |
| 4.  | $\mathbb{F} \neg P$ ✓    | Assumption           |
| 5.  | $\mathbb{F} R$           | $\neg \top 3$        |
| 6.  | $\top P$                 | $\neg \mathbb{F} 4$  |
| <div> <div></div> <div> <div></div> <div></div> </div> </div> |                          |                      |
| 7.  | $\mathbb{F} Q$ $\top R$  | $\rightarrow \top 2$ |
| <div> <div></div> <div> <div></div> <div></div> </div> </div> |                          |                      |
| 8.  | $\mathbb{F} P$ $\top Q$  | $\rightarrow \top 1$ |

