

The Deduction in Example 2.3.8 on Page 55 Presented
in Dr. Shirley's Required Format.

List of Given Premises:

- (a) $RK \rightarrow GK$
- (b) $GK \rightarrow SB$
- (c) $\sim SB$
- (d) $RL \vee RK$
- (e) $RL \rightarrow GC$

To deduce: GC

DEDUCTION:

<u>STATEMENT</u>	<u>Justification</u>
1. $RK \rightarrow GK$ $GK \rightarrow SB$ <hr/> $\therefore RK \rightarrow SB$	by Premise (a) by Premise (b) <hr/> by Transitivity
2. $RK \rightarrow SB$ $\sim SB$ <hr/> $\therefore \sim RK$	by Argument (1) by Premise (c) <hr/> by Modus Tollens
3. $RL \vee RK$ $\sim RK$ <hr/> $\therefore RL$	by Premise (d) by Argument (2) <hr/> by Elimination
4. $RL \rightarrow GC$ RL <hr/> $\therefore GC$	by Premise (e) by Argument (3) <hr/> by modus Ponens