

- | | | | |
|---|-----|-------------------------------------|---------------|
| 1 | (1) | $\forall x(Ax \rightarrow \sim Bx)$ | A |
| 2 | (2) | Bc | A |
| | (3) | | 1 $\forall E$ |
| | (4) | $Bc \rightarrow \sim Ac$ | |
| | (5) | $\sim Ac$ | |
-

- | | | | |
|-------|------|-------------------------------------|---|
| 1 | (1) | De | A |
| | (2) | $\forall x(Dx \rightarrow Fx)$ | A |
| | (3) | $\sim Ge$ | A |
| | (4) | $\forall x(Fx \rightarrow Gx)$ | |
| | (5) | $De \rightarrow Fe$ | |
| | (6) | | |
| | (7) | Fe | |
| | (8) | | |
| | (9) | $Ge \ \& \ \sim Ge$ | |
| 1,2,3 | (10) | $\sim \forall x(Fx \rightarrow Gx)$ | |
-

$\forall x(Fx \vee Bx), \sim Ba \vdash \exists xFx$