

1:  $\neg \exists x. \neg R(x)$  premise

2: **actual i** assumption

3:  $\neg R(i)$  assumption

4:  $\exists x. \neg R(x)$   $\exists$  intro 3,2

5:  $\perp$   $\neg$  elim 4,1

6:  $R(i)$  contra (classical) 3-5

7:  $\forall y. R(y)$   $\forall$  intro 2-6