1: var i   premiss

2: $\forall x.(P(x*x) \rightarrow P(x*j))$ premiss

3: $\neg P(i*j)$ premiss

4: | $\forall x.P(x*x)$ assumption

5: | $P(i*i)$ $\forall$ elim 4

6: | $P(i*i) \rightarrow P(i*j)$ $\forall$ elim 2

7: | $P(i*j)$ $\rightarrow$ elim 6,5

8: | $\bot$ $\neg$ elim 3,7

9: $\neg \forall x.P(x*x)$ $\neg$ intro 4-8