1.	∀x[F(x)→G(x)]	Premise	{1}
2.	∀x[G(x)→H(x)]	Premise	{2}
3.	∀x[F(x)]	Hypothesis	{3}
4.	F(a)	∀-elimination3	{3}
5.	F(a)→G(a)	∀-elimination1	{1}
6.	G(a)	→-elimination4,5	{1,3}
7.	G(a)→H(a)	∀-elimination2	{2}
8.	H(a)	→-elimination6,7	{1,2,3}
9.	∃x[H(x)]	∃-introduction8	{1,2,3}
10.	∀x[F(x)]→∃x[H(x)]	→-introduction3,9	{1,2}