1. ¬A∨B   Premise   {1}
2. ⌐ ¬(A→B)   Hypothesis   {2}
3. ⌐ ¬A∨B   Hypothesis   {3}
4. A→B   Sequent-intro(ImplToDisj)3   {3}
5. ⊥   ∧-introduction2,4   {2,3}
6. ¬(¬A∨B)   ¬-introduction3,5   {2}
7. ⊥   ∧-introduction1,6   {1,2}
8. ¬¬(A→B)   ¬-introduction2,7   {1}
9. A→B   ¬¬-elimination8   {1}