2.¬(P∨Q),P→R,Q∨¬R⊢**¬P**

1. ~( P ∨ Q ) hip
2. P -> R hip
3. Q v ~R hip
4. | P hip-raa
5. | ~P ^ ~Q 1, demor
6. | ~P 5, sp
7. | P ^ ~P 4, 6, cj
8. **~P 4-7, raa**

5.(¬B∧¬C)→(D→C),¬B,C→B⊢**¬D**

1. (~B ^ ~C) -> (D -> C) hip
2. ~B hip
3. C -> B hip
4. ~C v B 3, cond
5. B v ~C 4, com
6. ~C 2, 5, sd
7. (~B ^ ~C) 2, 6, cj
8. (D -> C) 1, 7, mp
9. | D hip-raa
10. | C 8, 9, mp
11. | ~C ^ C 6, 10, cj
12. **~D 9-11, raa**

6.¬P→(Q→R),S∨(R→T),P→S⊢**¬S**→**(Q→T)**

1. ~P -> (Q -> R) hip
2. S v (R -> T) hip
3. P -> S hip
4. | ~S hip-pc
5. | ~P 3, 4, mt
6. | (Q -> R) 1, 5, mp
7. | | Q hip-pc
8. | | R 6, 7, mp
9. | | (R -> T) 2, 4, sd
10. | | T 8, 9, mp
11. | Q -> T 7-10, pc
12. **~S -> (Q -> T) 4-11, pc**