

```
|Clause |Derivation
Step
        | PvQ
                | Given.
 1.
          PvR
                 Given.
 2.
                 Given.
         ~PvR
         RvS
                 Given.
         Rv~Q
                 Given.
          ~Sv~Q
                 Given.
 6.
                 Negated conclusion.
         ~R
                  Resolved from PvQ and ~PvR.
 8.
          OvR
                 Resolved from PvQ and ~Sv~Q.
         Pv~S
10.
         Р
                 Resolved from PvR and ~R.
11.
         ∼P
                  Resolved from ~PvR and ~R.
12.
         Rv~S
                 Resolved from ~PvR and Pv~S.
                  Resolved from ~PvR and P.
13.
                 Resolved from RvS and ~R.
14.
                  Resolved from Rv~Q and ~R.
15.
         ~Q
16.
                 Resolved from ~R and QvR.
         Q
17.
         ~S
                 Resolved from ~R and Rv~S.
                 Resolved ~R and R to ~RvR, which is in turn null.
18.
A contradiction is found when ~R is assumed as true. Hence, R is true.
```