```
QI
1) p => (q=) r) (picmisc)
                (piemise)
2) P=)9
3) (p=>(p=>(1)=) ((p=)) = ((1)=p) = (1)
4) (P=19) = (P=17) MP:3,1
                     MP: 4,2
5) P=1
Q2
                         Premise
1) p => (9 => Tr)
                         premise
2) 9
                        premise
3) フセヨケ
                        II
4/97 (P79)
                        MP: 4,1
5) p=> 9
6) (p= (q=) T()) = ((p=q) = (p=) T)) IO
                                  DQ
7) (pru) (> 7(7p v7w)
                                  CR
8) (7+71) =) ((7+71) =+)
91 ((p/w) () 7(7p V7w)) => ((p/w) => 7(7p V7w)) EQ
10) (p/w) => 7 (7p V7w)
                               MP: 9, 7
                               MP: 6,1
11) (p=) a) = (p=) Tr)
                               MP: 11,5
12) P=>75
                               mP:8,3
13) (オナタカノ) コナ
                  (COULDN'T SOLVE)
```

```
Q3
(PAQ =) (P=)(Q=)(1)
= (7pV7qVr)=)(p=)(7gVr))
= (7pv7qvr) => (7pv(7qvr))
= (prart)v (7pv7avr)
fremises are: EP3
            {7p,79,-3
            from: se
1) {p3
            Premise
2) {9}
            Premise
3) {75
             premise
4) {79,79,5}
             1,4
5) {79,53
             2,3
```

3,6

6) { -}

7) { 3

```
P \Rightarrow q \land r = 7p \lor (q \land r) = \xi 7p, q^3, \xi 7p, r^3

r \land s \Rightarrow t = \tau(r \land s) \lor t = \xi \tau r, \tau s, t^3

\tau(p \lor q) \Rightarrow t = (p \lor q) \lor t = \xi p, q, t^3

q \Rightarrow s \lor r = \tau q \lor (s \lor r) = \xi \tau q, s, r^3

\tau(\tau q \Rightarrow t) = \tau(q \lor t) = \tau q \land \tau t = \xi \tau q^3, \xi \tau t^3
```

A STATE OF THE PARTY OF THE PAR	
1) & 7p, 9? 2) & 7p, r3 3) & 7r, 7s, t? 4) & p, 9, t? 5) & 79, 5, r?	Premise Premise Premise Promise
5) \( \{ \tau_{\\ \tau_{\tau_{\\ \tau_{\tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \tau_{\\ \\ \tau_{\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Prentse Prentse 3,7 4,7 1,9 6,10