

```
(0)[ga]\theta_1 = \emptyset
                                                                                 -(6)[a]\theta_4
1.
                                                                       25.
2.
          (1)[ga]\theta_2 = \{((17,23),\theta_1)/1\}
                                                                       26.
                                                                                   (25)[a]\theta_3
                                                                       27.
                                                                                  (26)[a]\theta_3
3.
          (2)[ga]\theta_2
          (23)[ga]\theta_3 = \{((3), \theta_2)/23\}
                                                                        28.
                                                                               -(3)[a]\theta_{10} = \theta_2\{((27,29),\theta_3)/3\}
4.
                                                                                 -(4)[a]\theta_{10}
5.
                                                                        29.
          (24)[ga]\theta_3
                                                                                 (17)[a]\theta_{11} = \{((5,7), \theta_{10})/17\}
6.
          (3)[ga]\theta_4 = \theta_2\{((25,31),\theta_3)/3\}
                                                                        30.
7.
          (4)[ga]\theta_4
                                                                        31.
                                                                                  (18)[a]\theta_{11}
8.
          (17)[ga]\theta_5 = \{((5,7),\theta_4)/17\}
                                                                        32.
                                                                                 (7)[a]\theta_{13} = \theta_{10}\{((19,21),\theta_{11})/7\}
9.
          (18)[ga]\theta_5
                                                                        33.
                                                                                 (8)[a]\theta_{13}
        -(7)[ga]\theta_6 = \theta_4\{((19,21),\theta_5)/7\}
                                                                       34.
                                                                                   (17)[a]\theta_{14} = \{((9,11), \theta_{13})/17\}
10.
         -(8)[ga]\theta_6
                                                                                  (18)[a]\theta_{14}
11.
                                                                        35.
          (17)[ga]\theta_7 = \{((9,11), \theta_6)/17\}
                                                                       36.
                                                                                 (11)[a]\theta_{15} = \theta_{13}\{((19,21),\theta_{14})/11\} 
12.
          (18)[ga]\theta_7
                                                                       37.
                                                                                 (12)[a]\theta_{15}
13.
          -(11)[ga]\theta_8 = \theta_6\{((19,21),\theta_7)/11\}
                                                                                   (29)[a]\theta_{16} = \theta_3\{((13,15),\theta_{15})/29\}
14.
                                                                        38.
          -(12)[ga]\theta_8
                                                                                  (30)[a]\theta_{16}
                                                                        39.
15.
          (31)[ga]\theta_9 = \theta_3\{((13,15),\theta_8)/31\}
16.
                                                                       40.
                                                                                  (13)[a]\theta_{15}
17.
          (32)[ga]\theta_9
                                                                                  -(14)[a]\theta_{15}
                                                                        41.
          (33)[a]\theta_9
                                                                        42.
                                                                                  (19)[a]\theta_{11}
18.
          (34)[a]\theta_9
                                                                        43.
                                                                                  (20)[a]\theta_{11}
19.
20.
         -(15)[a]\theta_8
                                                                        44.
                                                                                -(5)[a]\theta_{10}
21.
          (16)[a]\theta_8
                                                                        45.
                                                                                 -(6)[a]\theta_{10}
22.
          (21)[a]\theta_5
                                                                        46.
                                                                                   (27)[a]\theta_3
          (22)[a]\theta_5
                                                                                   (28)[a]\theta_3
23.
                                                                        47.
         (5)[a]\theta_4
                                                                                  (28)[\exists]\theta_3
24.
                                                                        48.
```

