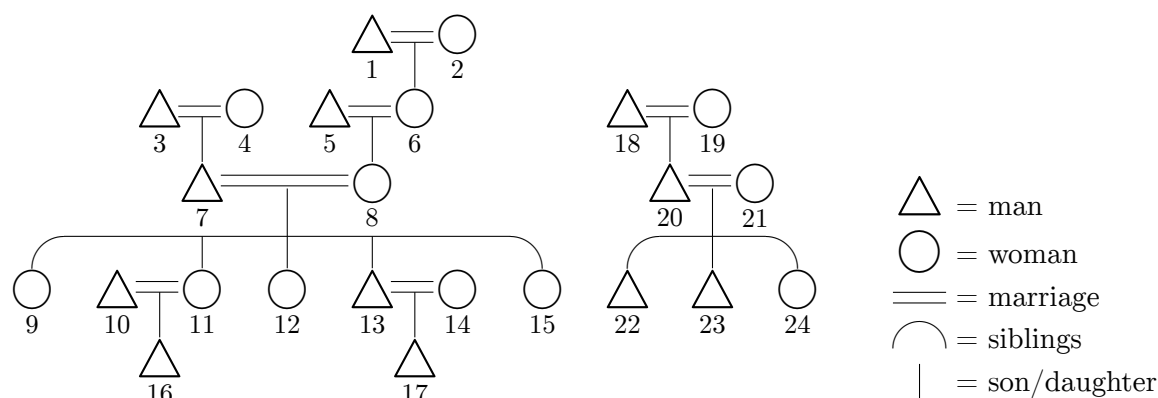


Problem 4 (20 points). Here are the family trees of two families of Arabana speakers. In these trees, siblings are arranged from oldest to youngest going from left to right:



Now here are utterances from 22 of these people describing their relationships to some of their relatives:

- | | | |
|--|---|---|
| A: “D anthunha wardu.
F anthunha(i).” | H: “N anthunha piyaka.
O anthunha(iii).
W anthunha(iv).” | S: “J anthunha thanti.
L anthunha thanti.
V anthunha nhupa.” |
| B: “C anthunha nhuthi.
D anthunha apityi.
E anthunha nhuthi.
G anthunha lhuka.” | I: “V anthunha piyaka.”
J: “H anthunha apityi.
L anthunha(v).” | T: “J anthunha kaku.
L anthunha nhuthi.
N anthunha kaku.
S anthunha thanti.” |
| C: “B anthunha kupaka.
D anthunha apityi.
E anthunha kupaka.
G anthunha lhuka.” | K: “P anthunha(vi).”
L: “K anthunha piyaka.
U anthunha kaku.
V anthunha kadnhini.
W anthunha kadnhini.” | U: “J anthunha kupaka.
R anthunha(viii).
V anthunha kadnhini.” |
| D: “A anthunha lhuka.
B anthunha piyaka.
E anthunha(ii).
G anthunha nhupa.” | M: “K anthunha wardu.
L anthunha nhupa.”
O: “H anthunha wardu.
T anthunha amanyi.
W anthunha nhupa.” | V: “N anthunha kadnhini.
P anthunha wardu.
Q anthunha(ix).
T anthunha kadnhini.” |
| E: “B anthunha kupaka.
C anthunha nhuthi.
G anthunha lhuka.” | P: “H anthunha nhupa.
I anthunha(vii).
V anthunha lhuka.” | W: “N anthunha kadnhini.” |
| F: “A anthunha nhupa.” | R: “H anthunha thanti.” | X: “U anthunha nhupa.” |
| G: “C anthunha wardu.
E anthunha wardu.” | | |

(a) Match the family members **A–X** with their positions (1–24) on the family trees.

(b) Fill in the blanks (i–ix).

△ Arabana belongs to the Pama–Nyungan family. It is spoken by approx. 15 people in the state of South Australia.

In this problem, each person is referred to with a single letter for convenience, but examples of Arabana names include **Wanga-mirri** ‘many mornings’, **Palku-nguyu-thangkayiwanha** ‘one bank of cloud sitting down temporarily’ and **Kutha-kiRanangkarda** ‘water ever flowing’.

dnh, lh, ng, nh, ny, R, rd, rr, th, ty, w and y are consonants.

—Tom McCoy