Problem 4. S = subject, O = object

ni-:	2nd person $\notin \{S, O\}$ $\wedge$ 1st person $\in \{S, O\}$
ki-:	2nd person $\in \{S, O\}$

  + root +

S	O	
1|2	3	**-ā(w)**
1	2	**-it-in**
2	1	**-in**
3	1|2	**-ik(o|w)**

  +

  +

1st person pl $\in \{S, O\}$:	**-(n)ān**
2nd person pl $\in \{S, O\}$ $\wedge$ 1st person pl $\notin \{S, O\}$:	**-(ā)wāw**

  +

3rd person pl $\in \{S, O\}$: **-(w)ak**

- $\left. \begin{array}{ll} \text{ē-} & as \ldots \\ \emptyset\text{-} & if \ldots \end{array} \right\}$ + root +

S	O	
1|2	3	**-ā(w)**
3	1|2	**-ik(o|w)**

  +

$\{S, O\}$	
$\{$2nd person pl, 3rd person sg$\}$:	**-yēk**
$\{$1st person pl, 3rd person pl$\}$:	**-yāhkwāw**
etc.	

(a)
26. **ē-wāpamikoyēk** — *as he sees you$_{pl}$*
27. **ninakinikonān** — *he stops us*
28. **kikakwēcimāwāw** — *you$_{pl}$ ask him*
29. **kiwīcihitināwāw** — *I help you$_{pl}$*

(b)
30. *if we ask them* — **kakwēcimāyāhkwāwi**
31. *they challenge you$_{pl}$* — **kimawinēskomikowāwak**
32. *they help me* — **niwīcihikwak**
33. *you$_{sg}$ see them* — **kiwāpamāwak**
34. *I stop you$_{pl}$* — **kinakinitināwāw**

Problem 5.

- $\left[\begin{array}{ll} 400 : & \textbf{kampwoo} \\ \alpha_1 \times 400 : & \textbf{kampwɔhii } \alpha_1 \end{array} \right] + \left[\begin{array}{ll} 80 : & \textbf{ŋkuu} \\ \alpha_2 \times 80 : & \textbf{ŋkwuu } \alpha_2 \end{array} \right] + \left[\begin{array}{ll} 20 : & \textbf{beɲjaaga} \\ \alpha_3 \times 20 : & \textbf{be-}\alpha_3 \end{array} \right] +$
  $[10 : \textbf{kɛ}] + [5] + [\beta], 2 \leq \alpha_{1,2,3} \leq 4, 1 \leq \beta \leq 4$

- +: **na**

1:	**niŋkin**	-niŋkin $\rightarrow$ -ni
2:	**shuunni**	
3:	**taanre**	
4:	**sicyɛɛre**	-sicyɛɛre $\rightarrow$ -ricyɛɛre
5:	**kaŋkuro**	kaŋkuro na $\rightarrow$ baa-

(a)
kampwɔhii shuunni na kɛ	810
ŋkuu na baataanre	88

(b)
15	**kɛ na kaŋkuro**
109	**ŋkuu na beɲjaaga na baaricyɛɛre**
152	**ŋkuu na beetaanre na kɛ na shuunni**
403	**kampwoo na taanre**
1534	**kampwɔhii taanre na ŋkwuu sicyɛɛre na kɛ na sicyɛɛre**