```
Example 1: Use alignat, two groups of formulae
1 \begin{alignat*}{2}
2 &\key{app} (\lambda C, o) &&= \key{inst} (C, o) \\
    \&\key{app}\ ([k], o) \&\&= [k\ o]
4 \end{alignat*}
6 \begin{alignat*}{2}
    &\key{first} (n, m) &&= n
                                   - \\
&&= [k\ .1] \\
\end{alignat*}
                         \mathsf{app}(\lambda C, o) = \mathsf{inst}(C, o)
                         \mathsf{app}([k],o) \, = [k\ o]
                         first(n, m) = n
                         first([k])
                                     = [k . 1]
                         second(n, m) = m
                         \mathsf{second}([k]) \quad = [k \ .2]
```

```
Example 2: Use alignat, three groups of formulae
  1 \def\key#1{\textsf{#1}}
  2 \def\vor{\mathrel{\,|\,}}
             4 \def\note#1{\text{#1}}
  6 \begin{alignat*}{4}
                       &\Gamma, \Delta &\quad&::=&\quad&
                                              () \vor \Gamma, x : A &\mskip 60mu& \note{Contexts}
                                               & t, u, A, B
                                                                                                              &&::=
                                                                                                                                                                      &&
                                             x \vee x \cdot A. t \vee x \cdot A
10
                                                                                                                                                                     && \note{Pi-types}
                                                                                                               &&\wideOr &&
                                              (t, u) \vor t.1 \vor t.2 \vor (x : A) \times B
                                                                                                                                                                      && \note{Sigma-types} \ \
                                                                                                                &&\wideOr &&
                                              16
                                                                                                                                                                      && \note{Natural numbers}
18 \end{alignat*}
             \Gamma, \Delta
                                                                        ::= () \mid \Gamma, x : A
                                                                                                                                                                                                                                                                                                            Contexts
             t, u, A, B ::= x \mid \lambda x : A.t \mid t \mid u \mid (x : A) \rightarrow B
                                                                                                                                                                                                                                                                                                             Pi-types
                                                                                             (t,u) \mid t.1 \mid t.2 \mid (x:A) \times B
                                                                                                                                                                                                                                                                                                             Sigma-types
                                                                                                   0 \mid s u \mid natrec t u \mid N
                                                                                                                                                                                                                                                                                                            Natural numbers
```

```
Example 3: Use tabu, 4 columns
1 \noindent
2 \setlength{\tabcolsep}{0pt}
  \label{linewidth} $$\left( \frac{\$} > \frac{\$}{quad}c<{quad} \right) $$
  → >{$}X<{$} 1}</p>
    \Gamma, \Delta & ::= &
      () \vor \Gamma, x : A & Contexts
                                                  \\[10pt]
    t, u, A, B & ::= &
      x \vor \lambda x : A. t \vor t\ u \vor (x : A) \to B
                          & \note{Pi-types}
                    &\vor &
      (t, u) \vor t.1 \vor t.2 \vor (x : A) \times B
10
                          & \note{Sigma-types} \\
                    &\vor &
      & \note{Natural numbers}
  \end{tabularx}
             ::= () \mid \Gamma, x : A
  \Gamma, \Delta
                                                       Contexts
  t,u,A,B\quad ::=\quad x\ |\ \lambda x:A.t\ |\ t\ u\ |\ (x:A)\to B
                                                       Pi-types
                 (t,u) \mid t.1 \mid t.2 \mid (x:A) \times B
                                                       Sigma-types
                  0 \mid s u \mid natrec t u \mid N
                                                       Natural numbers
```