## Matrices

There are a couple of equivalent ways to show matrices. Choose whichever you prefer, but please be consistent.

The amsmath package defines the matrix environment and its friends:

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \qquad \begin{bmatrix} a & b \\ c & d \end{bmatrix} \qquad \begin{bmatrix} a & b \\ c & d \end{bmatrix} \qquad \begin{bmatrix} a & b \\ c & d \end{bmatrix} \qquad \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

The memoir class defines the array environment:

In both cases, the various enclosed matrices or arrays are simply short-hand ways of wrapping the naked environment with \left(...\right) (or whatever delimiter) pairs.