Matrices (avec amsmath) – I

$$\begin{matrix} 0 & 1 \\ 1 & 0 \end{matrix} \qquad \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \qquad \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \qquad \begin{Bmatrix} 0 & 1 \\ 1 & 0 \end{Bmatrix} \qquad \begin{vmatrix} 0 & 1 \\ 1 & 0 \end{vmatrix} \qquad \begin{Vmatrix} 0 & 1 \\ 1 & 0 \end{Vmatrix}$$

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$$\begin{matrix} 0 & 1 \\ 1 & 0 \end{matrix} \qquad \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \qquad \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \qquad \begin{Bmatrix} 0 & 1 \\ 1 & 0 \end{Bmatrix} \qquad \begin{vmatrix} 0 & 1 \\ 1 & 0 \end{vmatrix} \qquad \begin{Vmatrix} 0 & 1 \\ 1 & 0 \end{Vmatrix}$$

```
\begin{matrix} 0 & 1\\ 1 & 0 \end{matrix} \qquad
\begin{pmatrix} 0 & 1\\ 1 & 0 \end{pmatrix} \qquad
\begin{bmatrix} 0 & 1\\ 1 & 0 \end{bmatrix} \qquad
\begin{Bmatrix} 0 & 1\\ 1 & 0 \end{Bmatrix} \qquad
\begin{vmatrix} 0 & 1\\ 1 & 0 \end{vmatrix} \qquad
\begin{Vmatrix} 0 & 1\\ 1 & 0 \end{Vmatrix} \qquad
```

Matrices (avec amsmath) – II

$$\begin{pmatrix} 1 & 1 & 1 & 1 & 1 & 1 \\ 0 & 2 & 4 & 8 & 16 & 2^5 \\ 0 & 0 & 3 & 9 & 27 & 3^4 \\ \vdots & & \ddots & \ddots & \ddots & \vdots \\ \vdots & & & \ddots & \ddots & \vdots \\ 0 & \cdots & \cdots & \cdots & 0 & 6 \end{pmatrix}$$

Matrices (avec amsmath) – II

$$\begin{pmatrix}
1 & 1 & 1 & 1 & 1 & 1 \\
0 & 2 & 4 & 8 & 16 & 2^5 \\
0 & 0 & 3 & 9 & 27 & 3^4 \\
\vdots & & \ddots & \ddots & \ddots & \vdots \\
\vdots & & & \ddots & \ddots & \vdots \\
0 & \cdots & \cdots & \cdots & 0 & 6
\end{pmatrix}$$

```
\begin{pmatrix}
 1      & 1 & 1 & 1 & 1  & 1\\
 0      & 2 & 4 & 8 & 16 & 2^{5}\\
 0      & 0 & 3 & 9 & 27 & 3^{4}\\
 \vdots&   &\ddots&\ddots&\ddots&\vdots \\
 \vdots&   &      &\ddots&\ddots&\vdots\\
 0      & \hdotsfor{3}    &0      &6
\end{pmatrix}
```

Matrices (avec amsmath) – III

$$\begin{pmatrix} \begin{vmatrix} a & b \\ c & d \end{vmatrix} & \cdots & \begin{vmatrix} 0 & 1 \\ 1 & 0 \end{vmatrix} \\ \vdots & \cdots & \vdots \\ \begin{vmatrix} \alpha & \beta \\ \gamma & \delta \end{vmatrix} & \cdots & \begin{vmatrix} 1 & 0 \\ 0 & 1 \end{vmatrix} \end{pmatrix}$$

et

$$\begin{array}{c} \\ e \\ f \end{array} \begin{array}{c} \begin{array}{cccc} a & b & c & d \end{array} \\ \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \end{pmatrix} \end{array}$$

Matrices (avec amsmath) – III

$$\begin{pmatrix} \begin{vmatrix} a & b \\ c & d \end{vmatrix} & \cdots & \begin{vmatrix} 0 & 1 \\ 1 & 0 \end{vmatrix} \\ \vdots & \cdots & \vdots \\ \begin{vmatrix} \alpha & \beta \\ \gamma & \delta \end{vmatrix} & \cdots & \begin{vmatrix} 1 & 0 \\ 0 & 1 \end{vmatrix} \end{pmatrix} \quad \text{et} \quad \begin{array}{c} \\ e \\ f \end{array} \begin{array}{c} \begin{array}{cccc} a & b & c & d \end{array} \\ \begin{pmatrix} 1 & 2 & 3 & 4 \\ 1 & 2 & 3 & 4 \end{pmatrix} \end{array}$$

```
\[\begin{pmatrix}
\begin{vmatrix} a & b\\ c & d \end{vmatrix} & \cdots &
\begin{vmatrix} 0 & 1\\ 1 & 0 \end{vmatrix}\\
\vdots & \cdots & \vdots \\
\begin{vmatrix} \alpha & \beta\\
  \gamma & \delta \end{vmatrix} & \cdots &
\begin{vmatrix} 1 & 0\\ 0 & 1 \end{vmatrix}\\
\end{pmatrix}\quad\text{ et }\quad
\bordermatrix{&a&b&c&d\cr e&1&2&3&4\cr f&1&2&3&4\cr}\]
```

L'EXTENSION delarray

$$\mathscr{Q} = \left(\begin{array}{cc} X & Y \end{array} \right) \left[\begin{array}{cc} a & b \\ c & d \end{array} \right] \left\langle \begin{array}{c} L \\ M \end{array} \right\rangle \left[\!\!\left[\begin{array}{ccc} \alpha & 0 & 1 \\ 0 & \beta & 1 \\ \gamma & 1 & 0 \end{array} \right]\!\!\right]$$

L'EXTENSION delarray

$$\mathcal{Q} = \begin{array}{t}(cc)\end{array} X \quad Y \begin{array}{t}[cc]\end{array} \begin{array}{cc} a & b \\ c & d \end{array} \begin{array}{b}\langle c \rangle\end{array} L \\ M \begin{array}{c} \llbracket *{3}{c} \rrbracket \\ \begin{array}{ccc} \alpha & 0 & 1 \\ 0 & \beta & 1 \\ \gamma & 1 & 0 \end{array} \end{array}$$

```
\[\mathcal{Q} =
\begin{array}[t] ({cc}) X & Y \end{array}
\begin{array}[t] [{cc}] a & b\\c & d\end{array}
\begin{array}[b] \langle {c}\rangle L \\ M \end{array}
\begin{array}[c]
  \llbracket{*{3}{c}}\rrbracket
  \alpha & 0 & 1\\ 0 & \beta & 1\\ \gamma & 1 & 0
\end{array} \]
```

Utilise `stmaryrd` *(Saint-Mary Road) pour* `\llbracket` *et* `\rrbracket`.