

## Xy-pic matrix feature examples

In LaTeX load the package with

```
\usepackage[arrow,matrix,curve,cmtip,ps]{xy}
```

In plain TeX load the package with

```
\input xy.tex
```

```
\xyoption{all}
```

```
\UseComputerModernTips
```

```
$$\xymatrix{
A\times G \ar[r]^f & B
}$$
```

$$A \times G \xrightarrow{f} B$$

```
$$\xymatrix{
A\times G & B \ar@{<.>[l]_f
}$$
```

$$A \times G \xleftarrow{f} B$$

```
$$\xymatrix{
A & & B \ar@/^/[ll]_f^g
}$$
```

$$A \xleftarrow[f]{g} B$$

```
$$\xymatrix{
A\times G \ar@<2pt>[r] & B \ar@<2pt>[l] \\
& \ar@{=>}[dr] \\
B \ar@{->>}[ur] & & C \ar^<(.1){g}[ll]
}$$
```

$$\begin{array}{ccc} A \times G & \xrightleftharpoons{\pi} & B \\ & \nearrow & \searrow \\ B & \xleftarrow{g} & C \end{array}$$

```
$$\xymatrix{
\\
A\times G \ar@(u,ul)[r] & B \ar@(d,rd)[l]_f
}$$
```

$$\begin{array}{ccc} & \curvearrowright & \\ A \times G & & B \\ & & \curvearrowleft \\ & & f \end{array}$$