fancy math fonts

The following fonts are classically used for maths, but you may choose to use them for fancy writing in drop caps or signatures, for example (see the `drop-caps.tex` example). They must be used inside math mode.

`\mathcal` by default accesses the following Calligraphic font:

$$\mathcal{ABCDEFGHIJKLM}$$
$$\mathcal{NOPQRSTUVWXYZ}$$

The eucal package defines `\mathcal` (by default) or `\mathscr` (with the mathscr package option) to call the Euler Calligraphic font:

$$ABCDEFGHIJKLM$$
$$NOPQRSTUVWXYZ$$

The amsfonts package provides the following two fonts, which are especially useful for maths: (it is also loaded by the amssymb package)

AMS (Euler) Fraktur with `\mathfrak`:

$$\mathfrak{ABCDEFGHIJKLM}$$
$$\mathfrak{NOPQRSTUVWXYZ}$$

AMS Blackboard with `\mathbb`:

$$\mathbb{ABCDEFGHIJKLM}$$
$$\mathbb{NOPQRSTUVWXYZ}$$

The mathrsfs package defines `\mathscr` to call the Ralph Smith Formal Script font:

$$\mathscr{ABCDEFGHIJKLM}$$
$$\mathscr{NOPQRSTUVWXYZ}$$