> USEFUL FONTS AND OTHER HINTS, (IF YOU USE IATEXFOR PROBABILITY HOMEWORK)

See the source file fonts.tex for the way to get access to these fonts. It involves packages amsfonts, euscript, and eufrak, which are all included with the standard $\mathrm{IAT}_{\mathrm{E}} \mathrm{X}$ distribution.

Blackboard bold:

$$
\begin{array}{lllllllllllll}
\mathbb{A} & \mathbb{B} & \mathbb{C} & \mathbb{D} & \mathbb{E} & \mathbb{F} & \mathbb{G} & \mathbb{H} & \mathbb{I} & \mathbb{J} & \mathbb{K} & \mathbb{L} & \mathbb{M} \\
\mathbb{N} & \mathbb{O} & \mathbb{P} & \mathbb{Q} & \mathbb{R} & \mathbb{S} & \mathbb{T} & \mathbb{U} & \mathbb{V} & \mathbb{W} & \mathbb{X} & \mathbb{Y} & \mathbb{Z}
\end{array}
$$

Calligraphic:

$$
\begin{array}{lllllllllllll}
\mathcal{A} & \mathcal{B} & \mathcal{E} & \mathcal{D} & \mathcal{E} & \mathcal{F} & \mathcal{G} & \mathcal{H} & \mathcal{J} & \mathcal{J} & \mathcal{K} & \mathcal{L} & \mathcal{M} \\
\mathcal{N} & \mathcal{O} & \mathcal{P} & \mathcal{Q} & \mathcal{R} & \mathcal{S} & \mathcal{T} & \mathcal{U} & \mathcal{V} & \mathcal{W} & \mathcal{X} & \mathcal{y} & \mathcal{z}
\end{array}
$$

Fraktur (looks fancy but havd to decipher):

$$
\begin{aligned}
& \begin{array}{lllllllllllll}
\mathfrak{A a} & \mathfrak{B b} & \mathfrak{C} \mathfrak{c} & \mathfrak{D d} & \mathfrak{E} e & \mathfrak{F f} & \mathfrak{G g} & \mathfrak{H h} & \mathfrak{I i} & \mathfrak{J j} & \mathfrak{K k} & \mathfrak{L l} & \mathfrak{M m}
\end{array} \\
& \begin{array}{lllllllllllll}
\mathfrak{N i n} & \mathfrak{O o} & \mathfrak{P p} & \mathfrak{Q q} & \mathfrak{R r} & \mathfrak{S s} & \mathfrak{T} \mathfrak{L} & \mathfrak{U} & \mathfrak{V} \mathfrak{v} & \mathfrak{W} w & \mathfrak{X x} & \mathfrak{Y y} & \mathfrak{Z z}
\end{array}
\end{aligned}
$$

Another distinction to note: use $\$ \backslash$ epsilon $\backslash$ in $\backslash \mathrm{RR} \$$ for $\epsilon \in \mathbb{R}$. And while I am at it: What's wrong with $\sqrt{2} \subset \mathbb{R} \backslash \mathbb{Q}$ and $\mathbb{Q} \in \mathbb{R}$ ?

Some other bad things.

- Don't type $\$ x=\backslash f r a c\{\backslash f r a c\{a\}\{b\}\}\{\backslash f r a c\{c\}\{d\}\} \$$. It will give the monstrosity

$$
x=\frac{\frac{a}{b}}{\frac{c}{d}}
$$

Better to try something like

$$
x=\frac{a / b}{c / d}
$$

- Similarly, $x^{\frac{a}{b}}$ is better written as $x^{a / b}$.
- And what does
$\because \because$ I live in Connecticut, but head south in September
$\because$ the sky is blue
$\therefore$ I like summer
$\because$ it is too cold in winter, ..."
mean? What does the first $\because$ refer to? Please resist the urge to hand in homework that consists of strings of equations linked by $\therefore$ 's and $\because$ 's. It can get very hard to decipher. Chao and I will be most unhappy.

