$\label{eq:Useful fonts and other hints,} (\text{if you use } \mathbb{A}T_EX \text{ for probability homework})$

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 IAT_EX distribution.

Blackboard bold:														
	A	$\mathbb B$	\mathbb{C}	\mathbb{D}	$\mathbb E$	\mathbb{F}	\mathbb{G}	\mathbb{H}	\mathbb{I}	J	\mathbb{K}	\mathbb{L}	\mathbb{M}	
	\mathbb{N}	\mathbb{O}	\mathbb{P}	Q	\mathbb{R}	S	T	\mathbb{U}	\mathbb{V}	W	X	¥	\mathbb{Z}	
Calligraphic:														
	\mathcal{A}	В	C	D	3	F	g	\mathcal{H}	J	J	К	\mathcal{L}	\mathcal{M}	
	N	O	ዎ	Q	R	S	T	U	V	W	X	y	Z	
Fraktur (looks fancy but hard to decipher):														
Aa	Bb	Cc	D	9 0	Ee	Ŧf	Gg	ŋ	h	Ii	Jj	Ŕŧ	\mathfrak{Ll}	Mm
Mn	Do s	Pp	Qq	R	tr	S \$	Tŧ	Uı	ı ş	Vv	Wn	v 3	Er	Qŋ 33

Another distinction to note: use $\operatorname{Sepsilon} \in \mathbb{R}$. And while I am at it: What's wrong with $\sqrt{2} \subset \mathbb{R} \setminus \mathbb{Q}$ and $\mathbb{Q} \in \mathbb{R}$?

Some other bad things.

• Don't type \$x=\frac{\frac{a}{b}}{\frac{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
 - ": I live in Connecticut, but head south in September
 - \therefore the sky is blue
 - \therefore I like summer

 \therefore it is too cold in winter, ..."

mean? What does the first \therefore refer to? Please resist the urge to hand in homework that consists of strings of equations linked by \therefore 's and \therefore 's. It can get very hard to decipher. Chao and I will be most unhappy.