Math 165 Typing Assignments

Some assignments must be typed.

Microsoft Word[©] and other word processors have facilities for superscripts, subscripts, and fractions. The instructor is using T_EX, a program for typesetting mathematics.

If you prefer, mathematics may be typed as you would enter the information in your calculator.

For example, the sentence

$$\sin^2(x) + \cos^2 x = 1.$$

may be typed as

$$\sin^2(x) + \cos^2(x) = 1.$$

The sentence

$$\frac{1}{x+h} - \frac{1}{x} = -\frac{h}{x(x+h)}.$$

may be typed as

$$(1/(x+h)) - (1/x) = - (h/(x(x+h))).$$

Which of the following is correct?

$$1/(x+h) - 1/x = -h/x(x+h)$$
.
 $1/(x+h) - 1/x = -h/(x(x+h))$.

When in doubt, use parentheses ().

Suggested conventions (partly borrowed from T_FX):

- \leq : type <= or \leq, \geq : type >= or \geq
- \pm : type \pm
- subscripts: a_{23} : type a_{23}
- superscripts: a^{23} : type a^{23}
- \Rightarrow : type => or implies
- absolute value: type |a| or abs(a) or \abs(a)
- square root: $\sqrt{a^2+b^2}$: type sqrt(a^2 + b^2) or \sqrt{a^2 + b^2}
- $\lim_{x\to a} f(x)$: type $\lim_{x\to a} f(x)$ or $\lim_{x\to a} f(x)$
- Integrals: $\int_a^b f(x) dx$: type fnInt(f(x),x,a,b)