\LaTeX topics to be familiar with for the quiz

I. Titles and sections
   A. The \texttt{center} environment centers text
   B. Sections should start with \texttt{\section}

II. Math you should know how to do
   A. Fractions: $\frac{1}{1-x^2}$
   B. Sums ($\sum_{k=1}^{n} n^2$) and integrals ($\int_{-\infty}^{\infty} e^{-\frac{1}{2}x^2} \, dx$)
   C. \texttt{sin}(x) and \texttt{cos}(x) (not \texttt{sin}(x) and \texttt{cos}(x))
   D. Radicals ($\sqrt{x}$ and $\sqrt[n]{x}$)
   E. Subscripts and superscripts ($x_i^k$)
   F. Ellipses \ldots (\texttt{\ldots}) and \ldots (\texttt{\cdots})
   G. Large equations should be displayed between lines with \[ \]
      \[
      \frac{d}{dx} \int_{a}^{x} f(t) \, dt = f(x)
      \]
   H. Logical operators: $\forall$, $\exists$, $\implies$, $\iff$
   I. Set-theory symbols: $\in$, $\subset$

III. Lists
   A. The \texttt{itemize} environment creates an unordered (bullet-pointed) list
   B. The \texttt{enumerate} environment creates an ordered (numbered) list
   C. Can have sublists within lists

IV. Tables
   A. Know the \texttt{tabular} environment, but don’t worry about \texttt{table}
   B. Should be able to put lines between columns and rows
   C. Should be able to justify columns left, right, or center

V. Theorems and proofs
   A. Create theorem-like environments with \texttt{\newtheorem}.
   B. Use the \texttt{\proof} environment for proofs (requires \texttt{amsthm} package)
   C. Use \texttt{\label} to give a name to an equation, list item, theorem, etc., and use \texttt{\ref} to refer to it.
VI. Miscellaneous

A. To get quotes, need to use ‘‘quotes’’ for “quotes”
B. *Italicized text* is made with `{\textit{Italicized text}}`
C. **Boldface text** is made with `{\textbf{Boldface text}}`
D. To end a line and start a new one, use `\` (but only if you have to!)