

The quiz on Wednesday will consist of definitions, and will be brief. Your wording on a definition *must be precise*, and you will be required to give a symbolic form and a verbal interpretation of the symbols. (Recall that an interpretation is a *conceptual* translation, not a symbol-by-symbol transliteration.) You may be asked to produce examples or verify that something satisfies the requirements of a definition. The ideas you should know include:

$$A \subseteq B, A = B$$

$$A \cup B, A \cap B, A - B$$

$$\mathcal{P}(A)$$

$$A \times B$$

$$P \iff Q$$

Contrapositive, Converse, Inverse

Negations of \forall , \wedge , \forall , \exists , \Rightarrow

x is rational

$$n \mid m$$

The sets \mathbf{N} , \mathbf{Z} , \mathbf{Q} , \mathbf{R} , \emptyset