The quiz on Monday 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:

\[ f : X \to Y \]
\[ f^{-1} : Y \to X \]
\[ f \circ g \]
\[ f \text{ is one-to-one} \]
\[ f \text{ is onto} \]
\[ f \text{ is a bijection} \]
\[ f = g \]
\[ \text{id}_X \]
\[ f(A) \]
\[ f^{-1}(B) \]

\[ R \text{ is a relation on } X \]
\[ R \text{ is reflexive} \]
\[ R \text{ is symmetric} \]
\[ R \text{ is transitive} \]
\[ \equiv \text{ is an equivalence relation on } X \]
\[ [a] \]
\[ X/\sim \]