

The quiz on Friday 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:

$$f: X \rightarrow Y$$

$$f^{-1}: Y \rightarrow X$$

$$f \circ g$$

f is one-to-one

f is onto

f is a bijection

$$f = g$$

id_X

$$f(A)$$

$$f^{-1}(B)$$

R is a relation on X

R is reflexive

R is symmetric

R is transitive

\equiv is an equivalence relation on X

$[a]$

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