This miniproject asks you to start thinking in terms of formal proofs and be able to spot errors in formal proofs.

Do the following problems.

(a) Give a formal proof for the Lewis Carroll argument in Example 26 of Section 1.3.

(b) Give a formal proof for the Lewis Carroll argument in Example 27 of Section 1.3.

(c) Find and explain the error(s) in the formal "proof" in exercise 23 of Section 1.5.

(d) Find and explain the error(s) in the formal "proof" in exercise 24 of Section 1.5.