Problems 16–18. Due Thursday, June 11, 1998

On this final problem set, please work alone.

Problem 16. Sipser, p. 379, p. 17.

Problem 17. Sipser, p. 379, p. 19.

Problem 18. Provide a direct zero-knowledge interactive proof, in the envelope model, for 3SAT. (By "direct" I mean that you should not reduce to some other NP-Complete language.) Explain why your protocol is zero-knowledge.