962-P1-1299 **Jane Friedman*** (janef@acusd.edu), Mathematics and Computer Science Department, University of San Diego, 5998 Alcala Park, San Diego, CA 92110. *Teaching Mathematical Reading*. Preliminary report.

Teaching students to read mathematics is an essential first step in teaching students to understand and write proofs. Reading mathematics requires intense focus and attention to detail. Every word matters. Moreover, in order to gain real understanding one should read with a pencil and paper and a questioning attitude. After every definition one should construct examples. After every theorem one should ask questions. Students who learn to read in this manner will find it easier to write their own proofs. In this talk I will discuss how I have used this approach with some success in a variety of classes including classes for math majors and especially in classes for future teachers. Since curricula constantly changes, K-12 teachers must have the ability to be life-long learners of mathematics. They must be able to read and learn mathematics on their own. The increasing emphasis on proof in K-12 mathematics, makes it essential that K-12 teachers be able to read and understand proofs as well as other mathematical material. (Received October 03, 2000)