Numerical Analysis

Math 370 Fall 1998 © **1998 Ron Buckmire** MWF 11:30am - 12:25pm Fowler 127

Class 18: Friday October 16

SUMMARY Using MATLAB to find roots **READING** Burden & Faires, 78–86

fzero and roots

Even though we now know a number of different methods to find roots, in practice people usualy use what tool is close by. If you had to use MATLAB to find the root of a function you would probably just use the built-in m-file functions **fzero** and **roots**.

roots is used to find the roots of a polynomial. Let's use it to find the roots of our original function $f(d) = 2552 - 30d^2 + d^3$ What are they?

fzero is used to find the roots of other non-linear functions. Let's try and find the fixed points of $\ln(x+2)$.