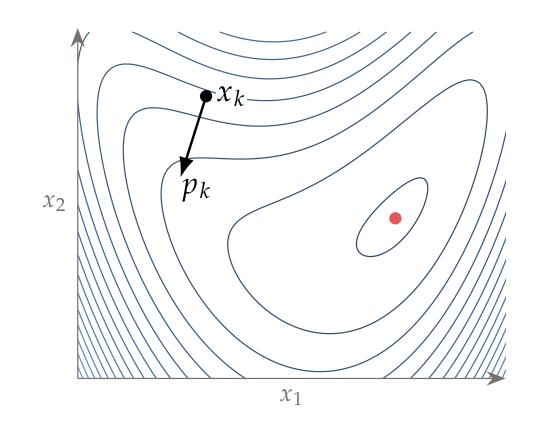
Midterm 2

ME EN 275 Andrew Ning aning@byu.edu



Topics

ODEs Previous Topics First order ODEs (IVP) root finding Euler's Method (no BVPs) integrals System of first order ODEs derivatives Higher order ODEs linear solves System of higher order ODEs **Statistics** Summary statistics (mean, variance, stdev, median, percentiles) Histograms Correlation and least squares regression Probability (and, or, conditional, independence, mutually exclusive, priors) Reliability analysis

$$\frac{dy}{dt} = 3y^2t$$

$$y(s) = 1$$