

Problem Set 3**Calculus 1****First Draft Due 7/12/05**

This problem set consists of a writing exercise. 20 points possible: 10 points for mathematical correctness and completeness, and 10 points for the correctness and completeness of your writing. All submissions should be word processed and may be submitted either on paper or electronically (as attachments in Word, WordPerfect, or Adobe formats emailed to Jwhite@Coe.Edu), but a copy of the original article should also be provided. First drafts will account for half of the total points, and final drafts for the other half.

Find an article in a major newspaper or magazine which includes information about rates of change. Write a brief email (as if to a fellow student who's working on a project with you) describing the situation from the article in terms of derivatives. In particular, you should make clear what the function measures (and in what units), what the article tells you about the function's derivative (and its units), and what if anything is said or can be inferred about the function's second derivative (and its units).

Although you are allowed (and encouraged) to talk to other students and discuss this assignment as much as you care to, each student should submit an individual assignment and preferably address a different article.