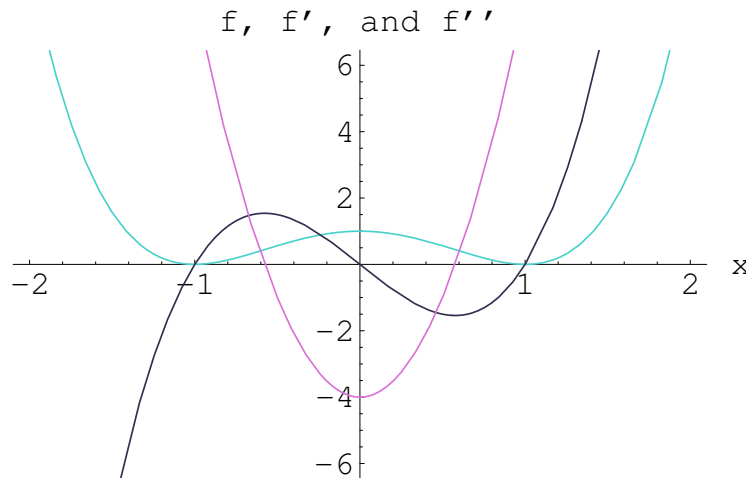


## Review of Chapter 3

These notes reflect material from our text, *Calculus, Concepts and Contexts, Third Edition*, by James Stewart, published by Brooks/Cole, Pacific Grove, CA, 2005.

### Review of Chapter 3

We will use Stewart's Review of Chapter 3, on pages 255–257, to systematically work through the developments and typical problems of that chapter. The principal concepts involve **differentiation rules** and their **application to problems arising in the physical and social sciences**.



*Fig. A function and its first and second derivatives. Which is which? Relate their behaviours.*

### Concept Check

You should have a clear understanding of the concepts mentioned in the **Concept Check section** on page 255.

### Exercises

Here is a rather comprehensive list of exercises representative of the work we have done in this chapter. We will attempt to work through a good number of these problems in class. Finish as many of the rest of them as you can before the exam, and then use these solutions and all of the homework you have completed for this chapter to review for the exam. You have put a sustained effort into understanding this chapter, so now **Do well on the exam!**

*Chapter 3 Review Exercises, pp 255–257:* 5, 7, 13, 19, 21, 27, 31, 36, 43, 45, 48, 51, 59, 62, 64, 69, 71, 73