## MAT 142 Problem Set #2

due in class on February 3, 2005

- 1. A postol, section 5.8 # 1–10
- 2. A postol, section 5.8 # 16, 19, 20
- 3. A postol, section 5.10 # 3–5, 7, 8, 10
- 4. Let f and g be differentiable functions. Assume that you already know a primitive, F, of f. Use the quotient rule for derivatives to find a formula for

$$\int \frac{f}{g}(x) \, dx$$

in terms of f, g, and F.