

**Section 3.10: Additional Problems**

1. Use differentials to approximate  $(1.97)^6$ .
2. Find the linearization,  $L(x)$ , for the function  $f(x) = \sqrt{4 + 5x}$  at  $x = 1$ . Use this linearization to approximate  $\sqrt{9.2}$  and  $\sqrt{8.5}$ .