Homework Assignment #6
Due Friday, May 25, 2007

1 Solve problem (a) here algebraically, giving an exact answer, and solve problem (b) graphically, giving answers that are accurate to at least one decimal place. (You may need to zoom in on the graph to achieve this.)
   (a) $3(2^x) = 2(3^x)$
   (b) $3 + x = 2^x$

2 An investor wants to double his investment of $10,000 in five years. Determine what annual interest rate he needs if:
   (a) the interest is simple;
   (b) the interest is compounded yearly;
   (c) the interest is compounded monthly;
   (d) the interest is compounded continuously.

3 What is the annual percentage yield of a saving account paying 4 percent compounded quarterly?

Practice Problems
Do not turn these in.

   Section 6.2, # 1, 3, 5, 7, 11, 13, 15, 17, 21, 23, 29, 31, 33, 35, 37, 39