1. Find the asymptotes, the intercepts and sketch the following function. A computer sketch is **not** sufficient. **You must explain.**

For each of the following functions, do a complete analysis: determine the vertical and horizontal asymptotes, and the x and y intercepts; and sketch a graph of the function. Section 6.2, number 6



2. The two roots of a quadratic equation are:



Find the equation.

3. (a) Sketch the following functions on the same set of axes:

