TMATH 124 Quiz 4

Show *all* your work (numerically, algebraically, or geometrically) for each and simplify. No credit is given without supporting work.

1. [3] (extreme wks #1) Draw graphs of two functions f so that:



2. Consider the function g(x) = ln(x² + x + 1) for the following questions.
(a) [1] Find g'(x).

(b) [2] (WebHW12 #7) Find the equation of the line tangent to g when x = 1.

(c) [4] (§4.1 #67) Use calculus to find the local minimum value(s) of g.