HOMEWORK 17
APPLIED CALCULUS
DUE 2013-11-05

Show your work! For all graphing problems, you must use steps (1)–(9) (except (7)) on pp. 814–817. If you just give the answer without showing your work for each step, then you will not receive full credit.

(1) Graph the function $y = x - \sqrt{x}$.

(2) Graph the function $y = \ln(x - x^2)$. We saw in class that its domain is $0 < x < 1$, and that it has vertical asymptotes at $x = 0$ and $x = 1$.

(3) Graph the function $y = \ln(x^2 - x)$. It also has vertical asymptotes at $x = 0$ and $x = 1$, but it has a different domain.

- **Three** book problems: #12.4.12, 16, 20.