Worksheet - 11/05/13   Calculus I   Fall 2014

1. Sketch the complete graph of $f(x) = x^2 \ln x$. Your work should include: the domain of the function, equations of eventual asymptotes (vertical or/and horizontal), coordinates for the axis intercepts, a sign chart for the derivative and the second derivative, the location and nature of the critical points (if any), location of inflection points (if any).

2. Pb. 24 section 4.2.