## Quiz 8 Calculus 1 10/21/2002

Each problem is worth 5 points. Show complete justification for full credit.

1. Use the derivative to find all local maximum and minimum values of $f(x)=x^{3}-6 x^{2}-15 x+7$.
2. Use the derivative to find the exact $x$ value where the minimum of $g(x)=x \ln x$ occurs.
