- 1. Let  $f(x) = \ln(x) \frac{x^2}{20}$ 
  - (a) Write the equation of the line tangent to the graph of y=f(x) at x=5.
  - (b) Find the maximum and minimum values of f(x) on the interval [1,12].
- 2. Let  $g(x) = 3e^x 7x$ .

Write the equation of the line tangent to the graph of y = g(x) at its global minimum.

T. Ratliff - Math 102 October 9, 2003