Math 16A (Summer 2007) Kouba Quiz 7
PRINT Name:
Exam ID # :

1.) (15 pts.) Consider the function $f(x)=\frac{x^2}{x-3}$. Compute the FIRST derivative and set up a sign chart for f'. Identify relative extrema (You need NOT determine absolute extrema.), including y-values, and state the open intervals on which f is increasing (\uparrow) and decreasing (\downarrow). You need NOT graph the function.

2.) (15 pts.) Assume that the SECOND derivative of function f(x) is $f''(x) = x^4 - x^3 - 6x^2$. Determine the x-values for which f has inflection points.