Math 16A (Summer 2007) Kouba
Quiz 4
PRINT Name:
Exam ID # :

1.) (15 pts.) Use $f'(x)=\lim_{\Delta x\to 0}\frac{f(x+\Delta x)-f(x)}{\Delta x}$ to determine the derivative of $f(x)=x^2-3x+4$.

- 2.) Consider the function $f(x) = \frac{x}{x-2}$ and assume that its derivative is $f'(x) = \frac{-2}{(x-2)^2}$
 - a.) (2 pts.) What is f(4)?
 - b.) (2 pts.) What is f'(4)?
 - c.) (5 pts.) Find an equation of the line which is tangent to the graph of f at x=4.
- d.) (6 pts.) Find an equation of the line which is perpendicular to the graph of f at x=4.