Name:	
1.0011101	

Math 105

Quiz #8

November 18, 2013

- This is a closed-book quiz. No books, notes, calculators, cell phones, communication devices of any sort, or webpages, or other aids are permitted.
- Please *show* all of your work and *justify* all of your answers.
- **1.** [5 Points] Find the critical numbers for $f(x) = \frac{x^2 + 12}{x + 4}$.

2. [5 Points] Find the critical numbers for $f(x) = x\sqrt{x+4}$.

3	[5 Points]	Find the cr	ritical numbers	for f($(x) = x^{\frac{4}{3}} = 4x$	$\frac{1}{3}$
J.	5 Points	rma the cr	ilicai numbers	10r / ($x_1 = x_3 - 4x$	3

 $\mathbf{4.}$ [5 Points] Find the absolute maximum and absolute minimum value(s) of the function

$$G(x) = (x-1)^2(x-9)^2$$
 on the interval [0, 8].