Name:
Quiz 2
Math 111 Intro to Math Methods and Applications - Crawford
Books and notes (in any form) are not allowed. You may use a calculator. Show all your work for full credit. Good Luck!

1. ( 4 pts ) Perform the indicated operation and simplify.
$\frac{x+1}{x^{2}-x}-\frac{3}{x^{2}-2 x+1}$
2. (4 pts) Simplify the complex fraction.
$\frac{\frac{5}{3 y}}{\frac{1}{3}-y}$
3. ( 4 pts ) Solve the following equation.
$3(x-4)=4-2 x$
4. (4 pts) Solve the following fractional equation. Check your answer and clearly state if there is no solution.
$\frac{2 x}{x-3}=4+\frac{6}{x-3}$
5. (4 pts) Sheldon wants to purchase tickets for the new Star Wars movie. The online site charges $\$ 14.75$ per ticket and a one time processing fee of $\$ 3.00$.
(a). Define the variable $x$ in words: Let $x$ be $\qquad$
(b). Write an expression for how much it would cost to purchase $x$ tickets.
(c). How much would you pay to buy 4 tickets?
(d). If he has $\$ 100$ to spend on tickets, how many can he get?
