Math 114	
Home Quiz 2	
Due Mon Jan 26,	2009

NAME:					

SCORE: ___ / 10 POINTS

INSTRUCTIONS:

Write your final answers in the spaces provided at the bottom of page 1.

On pages 2 and 3, show the solution used to get your answers.

You will get 1 point for each correct answer with a correct and neat solution.

You will get ½ point for each correct answer with a correct but messy solution.

You will get 0 points for each incorrect answer, or each correct answer with no solution or an incorrect solution.

This quiz is intended as practice for writing solutions for the midterm.

- Joe's score on quizzes varies directly as the number of hours he studies and inversely as the number of hours he plays his Wii. On his last quiz, Joe studied for 2 hours and spent 5 hours on his Wii, and earned 40 points. For Monday's quiz, Joe has studied for 3 hours and spent 4 hours on his Wii. What should his score be for Monday's quiz? Write your answer in a complete sentence as shown in class.
- [2] Solve for $x: \frac{x}{x-2} + \frac{2}{x-1} = \frac{2}{x-2}$.

[3] Simplify: $\frac{\frac{2}{x-2} - \frac{1}{x}}{1 - \frac{2}{x}}.$

- [4] Subtract and simplify: $\frac{2}{x^2 x} \frac{4}{x^2 1}$.
- [5] Add and simplify: $\frac{3x+1}{4x^2-1} + \frac{5x+3}{4x^2-1}$.
- [6] Divide and simplify: $\frac{2x^2 + x 3}{x^2 + 5x 6} \div \frac{6x^2 + x 12}{x^2 + 3x 18}$.
- [7] Multiply and simplify: $\frac{10-2x}{x^3-4x} \times \frac{x^4+5x^3+6x^2}{x^2-2x-15}$.
- [8] Three divided by two more than a number equals one divided by that number minus four. Find the number.
- [9] Solve for x: 5+2|3+x|=13.

[10] Solve for x: |4-3x| < 10.

YOUR ANSWERS:

[1]

[2] ______ [3] _____ [4] _____ [5]

[6] _____ [8] ____ [9] ____

[10]

YOUR SOLUTIONS:		
[1]		
[2]		
[3]		
[4]		
[5]		

YOUR SOLUTIONS:	
[6]	
[7]	
[8]	
FOR	
[9]	
[10]	
[10]	