## MONTGOMERY COLLEGE Department of Mathematics Rockville Campus

MA 103 KATIRAIE QUIZ #3 Form A SECTIONS (3.1, 3.2, 3.3) FALL 2007

NAME		SCORE:	/ 20
	*** RFTAIN ALL	GRADED PAPERS FO	OR YOUR RECORDS ***

- 1) Solve the following algebraically (2 Points Each)
  (please give your answers in interval notation)
- a)  $\frac{3-5x}{5} \le \frac{1}{2}x + 7$

b)  $-\frac{5}{2}x + \frac{1}{3} \le 2$ 

c) 
$$3.1(3-2x) \le -2.9x$$

d) 
$$-\frac{5}{4}x + \frac{1}{2} \le 2$$

2) Solve the following equations:

a. 
$$\frac{3x}{3} - \frac{2x}{4} = \frac{1}{6}$$

b. 
$$\frac{3x+1}{3} = \frac{2x-1}{3}$$

2)	In 1990 a bus company had 30 busses; in 1995 the company had 345 busses. Let $f(x)$ represents the number of busses. Assume $f(x)$ is a linear function. (2 Points Each)
a.	Find the slope of $f(x)$ , and state what the slope represents in terms of the story?
b.	Use your slope and one ordered pair to write the equation for $f\left(x\right)$ .
С.	Predict the number of busses in the year 2007.
d.	Determine the year when number of busses will be 1227.