MAT 099 March 6th Quiz 4, Chapter 4

- 1. Solve the system of equations $\begin{array}{c} x-3y=-5\\ 4x-2y=6 \end{array}$ in two ways:
 - a. (4 pts) Substitution

b. (4 pts) Elimination

2. (4 pts) Which of the following systems has no solution, and which has infinitely many solutions?
Bonus 4 pts: For the one with infinitely many solutions, state the general solution and a particular solution.
Bonus 2 pts: For the one with NO solution, point out the absurdity that leads you to this conclusion.

	x + 2y + z = -3		2x - 3y + 7z = 11
a.	y + 2z = -4	b.	2y - 5z = 12
	0 = 0		0 = 4

(4 pts) Set It Up: Cashews are worth \$3.83 per pound. Almonds cost \$2.51 per pound. How many pounds of each should be mixed together to obtain 10 pounds of a mixture worth \$2.84 per pound?
 SOLVE for 4 Bonus Pts.

4. (4 pts) Find the unique solution for the system of Linear Equations:

x - y - 3z = 72x - y - 4z = 9x - 4y - 10z = 26