University of Utah Math 1090, Fall 2009 Name:

> Quiz # 2 Time: 10 minutes

Show all work. Check your answers. Solve the following system of equations:

We proceed by Left-to-Right Elimination:

Step 1: Replace line (D by (D-2x1): -6y-Z=1

Replace line (3) by (3) - 3×0: -10y-5z=-5 (or better: m2y+z=1)

The system becomes 0 x + 2y + z = 2 0 -6y - z = 13 2y + z = 1

Step 2: Replace line 3 by 3)+ 1/3×0: 2=4 -> 17=2]

the backerulstitute 1-6y-2=1-> y====]

x+2y+2=2->[5=1]

Then cleck these values by plugging then into the original 3 equations