Week 1 MATH 4A TA: Jerry Luo jerryluo8@math.ucla.edu Website: math.ucla.edu/~jerryluo8 Office Hours: Thursday 1-2, MS 2344; SMC hours: Tuesday 1-2, MS 3974

1.1.2 Give a geometric description of the following systems of equations.

(a)	
	-6x + 15y = -6
	8x - 20y = 8
(b)	
	-6x + 15y = -6
	8x - 20y = 11
(c)	
	-5x + 3y = -5
	8x - 8y = -6

1.1.3 Write the augmented matrix of the following system:

$$-49y - z = 2$$

-42x + 25z = -29
-6x - 9y + 88z = 33

1.1.5 Solve the following system with substitution or elimination:

$$2x - 6y = -17$$
$$-3x + 9y = 24$$

How many solutions are there?

1.1.7 Consider the following system:

$$12x + 12y = 6$$
$$24x + 24y = k$$

What must k be for the system to be consistent?