## Week 1 MATH 4A TA: Jerry Luo jerryluo8@math.ucsb.edu Website: math.ucsb.edu/~jerryluo8 Office Hours: Monday 9:30-10:30AM, South Hall 6431X; Math Lab hours: Monday 3-5PM, South Hall 1607

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

(a)	-6x + 15y = -6
	8x - 20y = 8
(b)	-6x + 15y = -6
	-6x + 13y = -6 $8x - 20y = 11$
(c)	5
	-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?