San José State University Fall 2015

Math-8: College Algebra Section 03: MW noon-1:15pm Section 05: MW 4:30-5:45pm

Quiz #12 (Take-home)

You	may	use your	book,	notes,	and	homework,	but	please	${\rm do}$	${\rm not}$	work	together	or	ask
for help	from	others.												

- 1. A system of linear equations can have _______, ________, on _______, on _______, on ________, solutions.
 - 2. Find all points of intersection:

$$x^{2} + y^{2} - 6x - 2y - 6 = 0$$
$$x - y = 0$$

- 3. Why doesn't the answer in problem 2 contradict the statement in problem 1?
- 4. Solve using substitution, elimination, row operations, or matrices. You must show all steps for full credit:

$$x + y + z + w = 6$$

$$2x + 3y - w = 0$$

$$-3x + 4y + z + 2w = 4$$

$$x + 2y - z + w = 0$$