Math 100
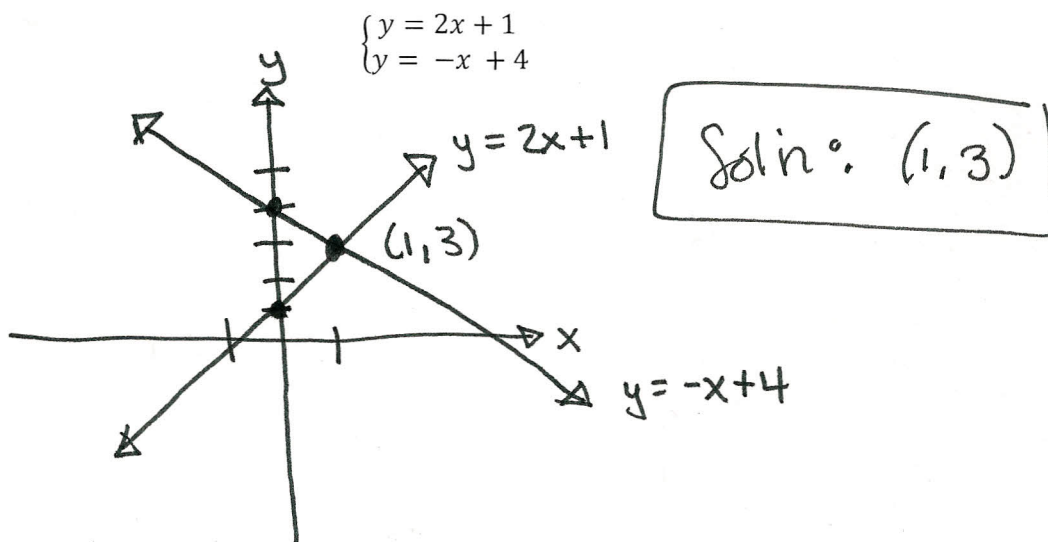American River College
Quiz 5

Name: **Key**

Student ID: _____

❖ Show all work
❖ No notes, books, or calculators allowed.
❖ Write answers in lowest terms when possible

1. (5 points) Solve the system by graphing.

$$\begin{cases} y = 2x + 1 \\ y = -x + 4 \end{cases}$$

$y = 2x+1$

Sol'n: $(1,3)$

$(1,3)$

$y = -x+4$

2. (5 points) Solve the system by substitution.

$$\begin{cases} 2x + 5y = 15 \\ x = y - 3 \end{cases}$$

$2(y-3) + 5y = 15$

$2y - 6 + 5y = 15$

$7y = 21$

$\boxed{y = 3}$

Solve for x

$x = 3 - 3$

$\boxed{x = 0}$

$\boxed{\text{Sol'n} : (0,3)}$