Name:_____ **TA:_____**

Foundations of Math 10 LG 13 Ver B

/12

Expectation 1: solve systems of linear equations using the substitution method.

1. Solve this linear system of equations using the method of substitution. (2 marks)

$2x - 7y = 6$
$x = 4y - 1$

2. Solve this linear system of equations using the method of substitution. (2 marks)

$5x - y = 7$
$3x + 5y = -7$

/4

Expectation 2: solve systems of linear equations using the elimination method.

3. Solve this system of equations using the elimination (addition/subtraction) method: (2 marks)

$2x - 3y = 1$
$4x + 3y = 11$

4. Solve this system of equations using the elimination (addition/subtraction) method. (2 marks)

$5x - 7y = -2$
$4x + 2y = 5$

/4

Expectation 3: choose a strategy to solve a problem that involves a linear system.

5. The sum of two numbers is 66 and their difference is 18. What are the numbers? (2 marks)

/2

6. The school band bought tickets for a concert. They paid $290 for 6 tickets in Section A and 10 tickets in Section B. When the concert was repeated the next week, they paid $220 for 4 tickets in Section A and 8 tickets in Section B.

   Write and solve a system of equations to determine the cost of tickets in Section A and Section B. (2 marks)

/2