ACMAT100 Fall 2023
Professor Manguba-Glover
Classwork 9   Name: _____

Complete as many of the following problems as you can with your table. If your entire table finishes early, you may leave early or work on homework.

(1) Determine if the following ordered pair is a solution to the given system of equations:

    (a) $x = 5y + 38$ Proposed solution: $(-2, -8)$
         $y = 4x$

    (b) $7x - 3y = 1$ Proposed solution: $(4, 2)$
         $2x + 7y = 36$

(2) Solve the following systems of equations using substitution, then solve it again using elimination:

    (a) $y = 2x - 3$ (c) $x - y = -4$
         $3y = 6x + 15$ $3x - 6y = -12$

    (b) $y = x - 1$ (d) $x - y = 3$
         $x + 4y = 6$ $2x + 3y = 6$

(3) Solve the following systems of equations using elimination, then solve it again using substitution:

(a) $2x + 3y = 6$
    $4x = -6y + 12$

(b) $y = x - 2$
    $x + 5y = 20$

(c) $5x + y = 12$
    $6x - 4y = 4$

(d) $x + y = -3$
    $x - y = -1$