Math 1201: Solving Systems of Equations

1. Solve by elimination.

    A). $x + 2y = 9$

            $2x - y = 9$

    B). $4x + 3y - 5 = 0$

            $2x - y = -5$

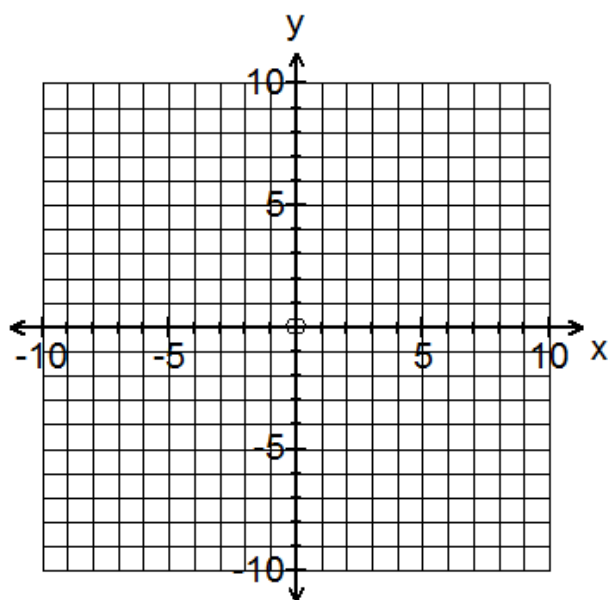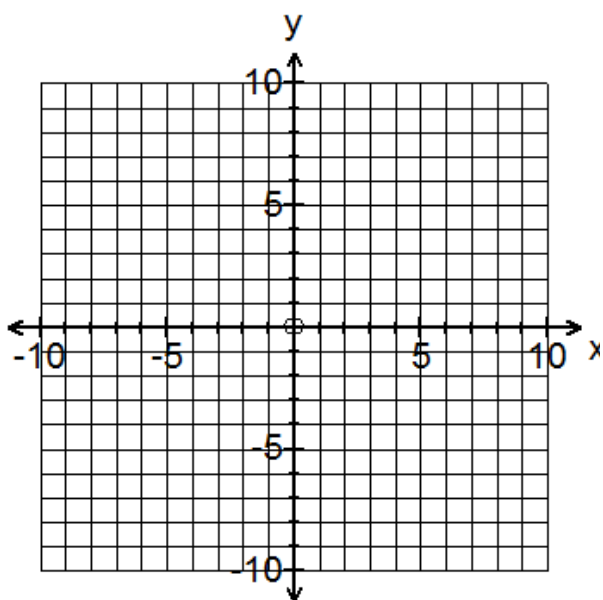   C). $5x + 7y = 1$

            $4x - 2y = 16$

    D). $5x + 3y + 21 = 0$

            $9x + 7y + 41 = 0$

2. Solve by graphing.

    A). $x + 2y = 2$

            $3x - 2y = -10$

    B). $3x + 2y = -2$

            $x = 2$

3. Solve using a method of your choice.

    A) $\dfrac{7}{2}x + \dfrac{10}{4}y = 17$

          $-\dfrac{3}{2}x - \dfrac{15}{2}y = -33$

    B). $3x - 2y = 4$

            $-4y = -6x + 8$

4. Determine the number of solutions of each system.

    A). $2x + 3y = 4$ B). $2x + 3y = 4$ C). $2x + 3y = 4$

          $3x - 2y = 4$ $4x + 6y = 8$ $4x + 6y = 7$

5. Create a linear system to model this situation:

    "A school raised $140 by collecting 2000 items for recycling. The school received 5 cents for each can and 10 cents for each bottle. "

b). Using a method of your choice, solve the linear system to determine the number of cans and the number of bottles were recycled.