Algebra 2 Bellwork Wednesday, October 8, 2014

1. Use a sheet of graph paper to solve this system of equations by graphing.

$y = -3x - 5$ $\quad 4x - 8y = -16$

2. Without graphing give the number of solutions to each system of linear equations.

a.

$4x + 6y = 20$

$-10x - 15y = -50$

b.

$8x + 4y = 40$

$6x - 12y = -120$

3. Solve each system of equations using either Substitution or Elimination. Don't use the same method twice.

a.

$9P - 8Q = -11$

$4P - 5Q = -2$

b.

$10x + 4y = -25$

$7x - y = -27$

4. On Sunday Mr. Warren took his family to the game. Bags of peanuts cost $2.29 each and cotton candy cost $3.49 each. He bought some of each and spent $19.63. Mr. Warren took his family to the game the following Sunday and the prices went up to $2.59 for a bag of peanuts and $3.99 for cottone candy. He bought the same amount of each and spent $22.33. Write and solve a system of equations to find the number of bags of peanuts and the number of cotton candies purchased each day.