Hon Alg 2   Classwork   Systems of Equations   Name:

1. Solve each system of equations. Give your answer as an ordered pair. Use each of the following methods once: Elimination, Graphing, and Subsitution. State which method you used for each problem. Use the graph provided for the problem you solve by graphing.

a) Method:_____

$7c + 4d = -2$

$5c - 6d = 34$

b) Method:_____
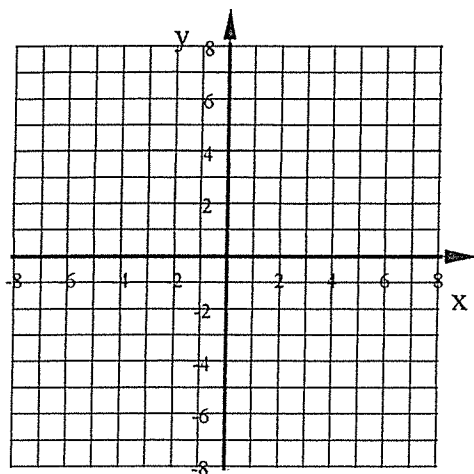
$y = \frac{1}{2}x + 1$

$10x - 5y = 10$

c) Method:_____

$6x + y = 31$

$7x - 8y = 27$

2. Write an inequality to model each statement.

a) The farmer can grow no more than 70 acres of wheat.

b) The store owner needs to sell at least 100 phones.

c) The artist makes and sells cups and plates. They can make up to 30 items this week.

3. You sell painting for $75 each and sculptures for $120 each. Write an equation to model your income when you sell some paintings and sculptures.

EQ: