Set 5

#22 The addition method. Solve each by addition

2x = 2 – y

3x + y = -1

#26 Solve each by addition method. Determine whether the equations are independent, dependent or inconsistent

X – y = 3

-6x + 6y = 17

#30 -3x + 2y = 8

3x + 2y = 8

#36 Equations involving fractions or decimals. Solve each system by the addition method

3/7x + 5/9y = 27

1/9x + 2/7y = 7

#70 Pennies and nickels. Wendy has 52 coins consisting of nickels and pennies. If the value of the coins is $1.20 then how many of each type does she have?

#10 Graphing linear inequalities. Graph each linear inequality

y≥ -3 + 4

#20 x<0

#46 Graphing Compound Inequalities. Determine which of the ordered pairs (1,3), (-2,5), (-6, -4) and (7, -8) satisfy each compound or absolute value inequality

Y ≥x -5 or

y≤ -2x + 1

#68 Absolute Value inequalities. Graph the absolute value inequalities.

|x + 2y| ≥6

#98 Applications

Allocating resources. A furniture maker has a shop that can employ 12 workers for 40 hours per week at its maximum capacity. The shop makes tables and chairs. It takes 16 hours of labor to make a table and 8 hours of labor to make a chair. Graph the region that shows the possibilities for the number of tables and chairs that could be made in one week.