Advanced Algebra Unit #6 Linear Programming Assignment #3
Review of Solving Systems of Equations

Solve the following simultaneous equations by graphing:

1) $x-y = 2$
   $3x - y = -6$

2) $x-y = -1$
   $x+y = 7$

3) $x+y = 5$
   $x-y = -4$

4) $x+y = -2$
   $6x - y = 9$

5) $3x - y = -2$
   $2x-y = -3$

6) $5x - y = -1$
   $2x-y = 5$

Solve the following systems by using the Elimination Method

1) $x+ y = 5$
   $-x+y = 1$

2) $x+y = 1$
   $2x + y = 5$

3) $x+ y = 10$
   $x-y = 6$

4) $x+y = 14$
   $x-y = -4$

5) $x+ y = 9$
   $2x + y = 15$

6) $x+ y = 0$
   $2x + y = 1$

7) $2x+ 4y = 12$
   $X+ 2y = 2$

8) $x+ y = 2$
   $2x+y = 7$

9) $x - 4y = 20$
   $2x + 5y = 1$

10) $9x - 5y = -30$
    $x + 3y = 18$

11) $x+ 3y = -2$
    $-3x + y = 6$

12) –x + y = -14   13) 2x + 3y = -7   14) 2x – 2y = -8
    2x – 3y = 33   -4x – 5y = 13   7x + 6y = 11

Use technology to solve the following simultaneous equations:
1) 2x + y = 30   2) x-y = -19   3) x + 2y = 39
   x-3y = 22   2x + 3y = -13   3x – 2y = 45

4) 2x + 3y = 35   5) 5x + 7y = 20   6) 6x – y = 78
   3x – y = -30   3x + 5y = 13   7x – 2y = 80