Math 10: Unit 7 (Chp 7) Solving Linear Equations
Unit 7.1: Solving by Graphing
A) What is a linear system?
B) Why do we graph?
-gives a visual picture of the relationship between the equations
-for linear equations...there are 3 possible solutions:
i) 1 solution
ii) no solution
iii) infinite solutions
C) How can we predict the possible number of solutions for a linear system of equations? -look at slope-intercept form: $\quad y=m x+b$
D) How to solve a linear system of equations by graphing?
-step 1) equations should be in the form: $y=m x+b$
2) graph
3) look at intersection points
-note: sometimes, you may need to estimate the intersection point
Ex: solve by graphing: $x+2 y=-4$ and $x-y=5$

Try and solve by graphing:
i) $x+2 y=-4$ and $x+2 y=2$
ii) $y=-x-5$ and $-2 x+y=-5$
iii) $4 y=3 x+24$ and $4 y-3 x=24$
-do pg 287 \#2, 4-6, 9, 10, 11

