## Graphing Systems of Equations and Inequalities Classwork and Homework



Graph each system of linear inequalities. a. Give two ordered pairs that are solutions. b. Give two ordered pairs that are not solutions.



9) Tom currently has 5 comic books in his collection and has subscribed to receive 5 new comic books each month. His uncle has 145 comic books, but sends 5 to each of his 3 nieces each month.

a. Write a system of equations for this situation.

b. Graph the system of equations.

c. In how many months will they have the same number of comic books? How many books will that be?





- 11) How many years after planting will the trees be the same height?
  - A 1 yearsC 4 yearsB 2 yearsD 6 years
- 12) Which system of equations is represented by the graph?

A 
$$\hat{\int} y = x + 2$$
  
 $\hat{\int} y = 0.5x + 2$  C  $\hat{\int} y = 2x + 4$   
 $\hat{\int} y = 0.5x + 2$  D  $\hat{\int} y = x + 4$   
B  $\hat{\int} y = 0.5x + 4$  D  $\hat{\int} y = 4x - 2$   
 $\hat{\int} y = 2x + 2$ 

Heights of Trees Heights of T





14) If 6 buffet tables are built, which can NOT be the number of dining tables built?

С

D

А

В

4

6

8

10

