**Assignment: Systems of Linear Inequalities**

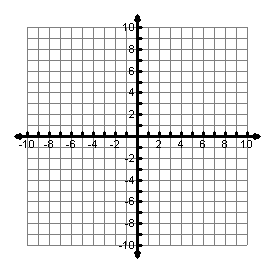
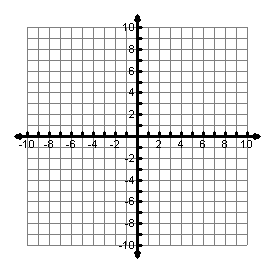
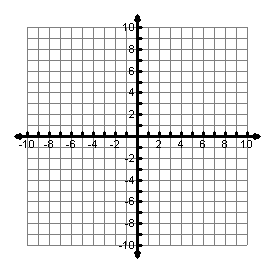
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

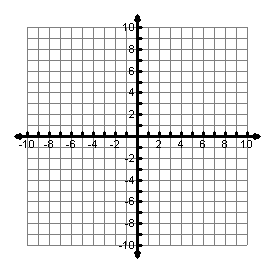
**Graph the system of linear inequalities.**

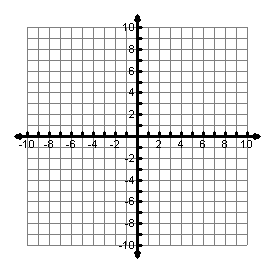
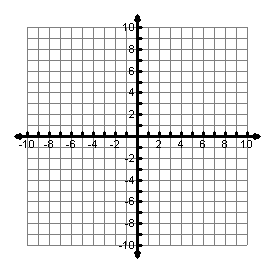
1. 2. 3.

Is (-3, -4) a solution? \_\_\_\_ Is (5, 0) a solution? \_\_\_\_ Is (0, -4) a solution? \_\_\_\_



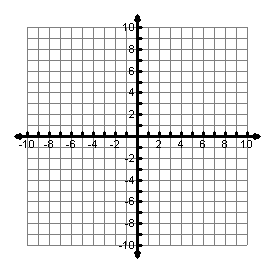
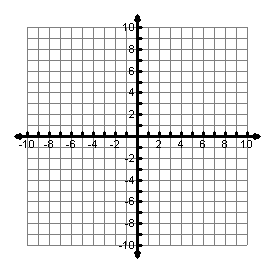
4. 5. 6.

Is (-3, 3) a solution? \_\_\_\_ Is (2, 4) a solution? \_\_\_\_ Is (-4, 2) a solution? \_\_\_\_

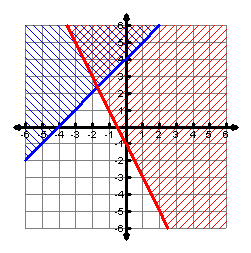


7. 8.

Is (-1,5) a solution? \_\_\_\_ Is (2, -4) a solution? \_\_\_\_



9. Which of the following systems of inequalities describes the graph shown?



A.  C. 

B.  D. 

10. A class fundraiser is charging $7 per car wash *w* and $4 per cake *c* sold. The cakes cost $2 to make and the supplies for the car wash cost $1 per car. They will wash less than 50 cars and bake no more than 30 cakes. They want to make a profit of at least $320 to give to a local charity. What system represents this situation?

F. G. H. J.