Concepts of Algebra 2 Notes **Section 2-8: Two-Variable Inequalities**

***Objective:**

*linear inequality:	***Diagrams**

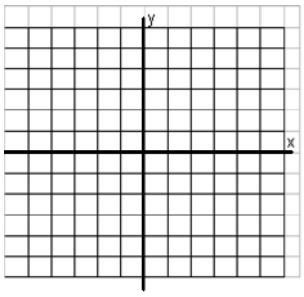
*test point:

If $y > mx + b$, shade above the boundary line.

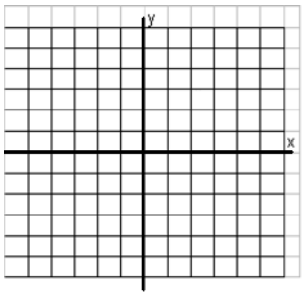
If $y < mx + b$, shade below the boundary line.

Got It? **1.** What is the graph of each inequality?

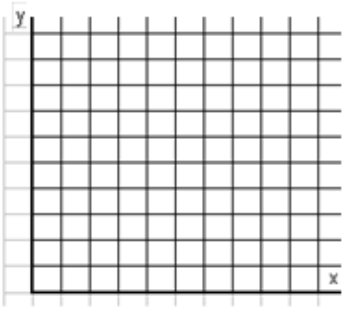
a. $y \geq -2x + 1$



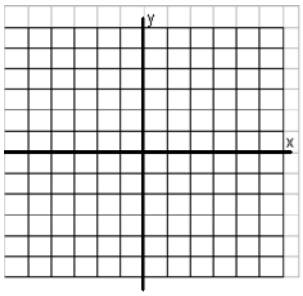
b. $y < -2x + 1$



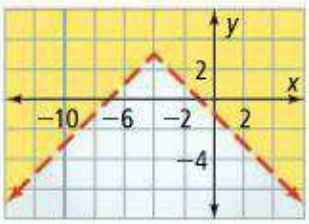
Got It? **2. a.** Suppose that you decide to spend no more than \$30 for tickets. What are the possible combinations of small and large rides that you can ride now? Use a graph to find your answer.



Got It? **3.** What is the graph of $y - 4 \geq 2|x - 1|$?



Got It? **4. a.** What inequality does this graph represent?



Inclass: p. 118 #16, 24, 28
Homework: p. 118 #9-29(odd) (change 19-25)
Interactmath: #8, 9, 10, 11, 17, 29