**9.1 Linear Inequalities in Two Variables**

Name: _____

A Linear Inequality has solution sets: all points in the Cartesian plane satisfy the inequality

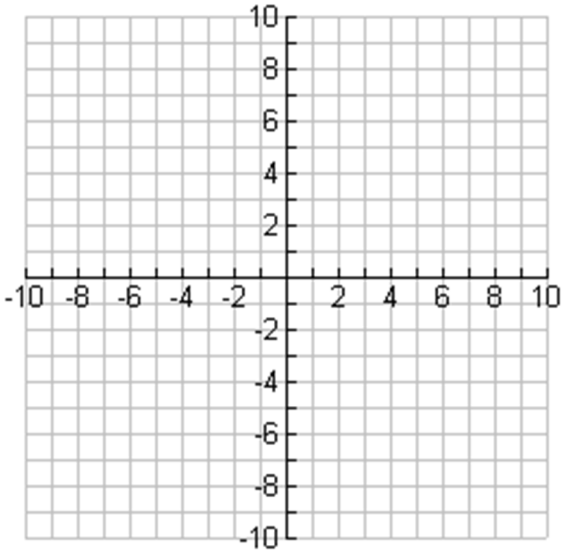
The line that satisfies the equality of Ax + By = C is the boundary between the solution sets.

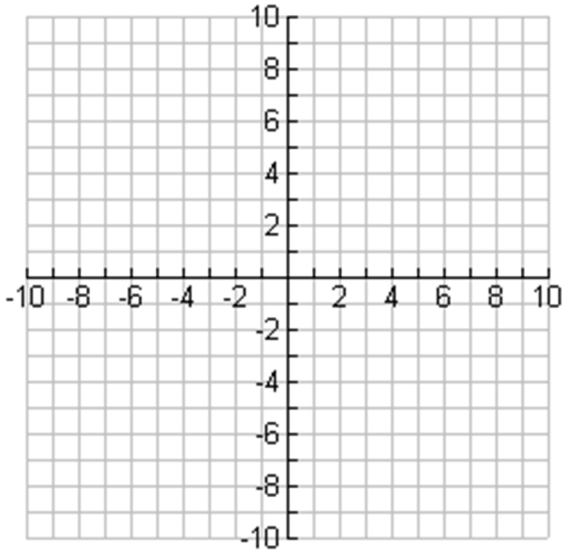
Example:

1. a.) Graph $2x + 3y \leq 6$

Use a test point to determine the correct region.

b.) Does the point (3, -2) satisfy this inequality?



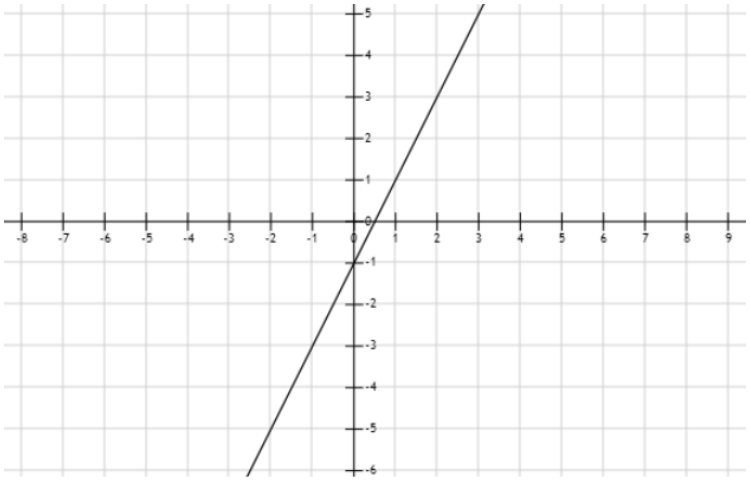




2. a.) Graph $5x - 20y > 0$

b.) Does the point (4, 1) satisfy this inequality?

Example 2:

Write an inequality Given its graph

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