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## 9.2 Graphing Linear Inequalities

**FM.O.2** Use geometric and algebraic techniques to solve optimization problems with and without technology.

Linear Inequality - \_\_\_\_\_

Geometric Optimization - \_\_\_\_\_

**Ex. 1 Graphing Linear Inequalities** Given the following equation, graph the linear inequality on the graph.

 $2x + 2y \le -2$ 

Step 1: Put inequality into slope-intercept form



Step 2: Graph the inequality & Step 3: Determine solution set S

**Ex. 2 Graphing Linear Inequalities** Given the following equation, graph the linear inequality on the graph.

x - 2y > 0Step 1: Put inequality into slope-intercept form

Step 2: Graph the inequality & Step 3: Determine solution set S





Step 1: Put inequalities into slope-intercept form

Step 2: Graph the inequality & Step 3: Determine solution set



Date \_\_\_\_\_