

# Day 4 - Creating Systems of Inequalities from a Graph - Notes

**Learning Target:** I can create a system of inequalities from a graph.

What information do you need to look at to name a system of inequalities from a graph?

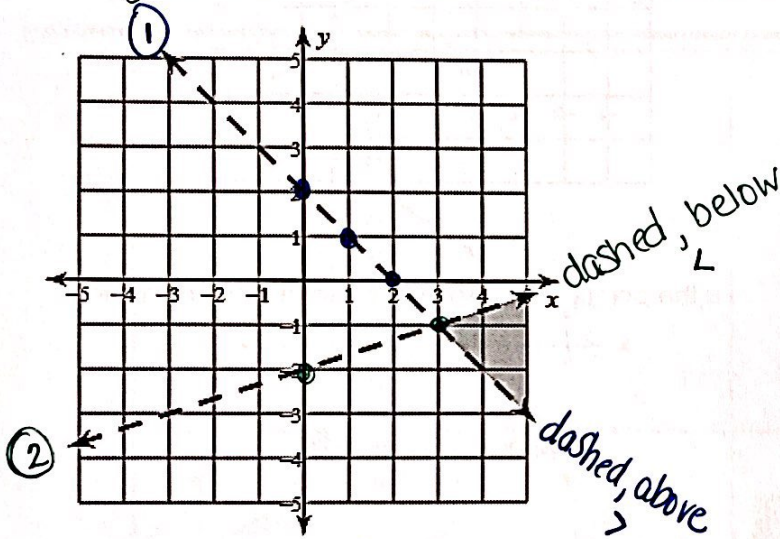
- Slope \_\_\_\_\_
- y-int \_\_\_\_\_

- type of line \_\_\_\_\_
- Shading \_\_\_\_\_

**Practice:** Name each system of inequalities from the graph:

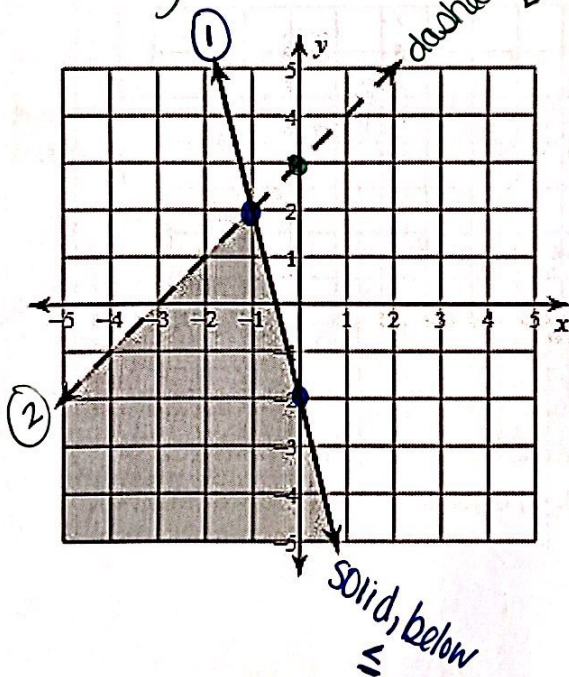
Line 1:  $y > -x + 2$

Line 2:  $y < \frac{1}{3}x - 2$



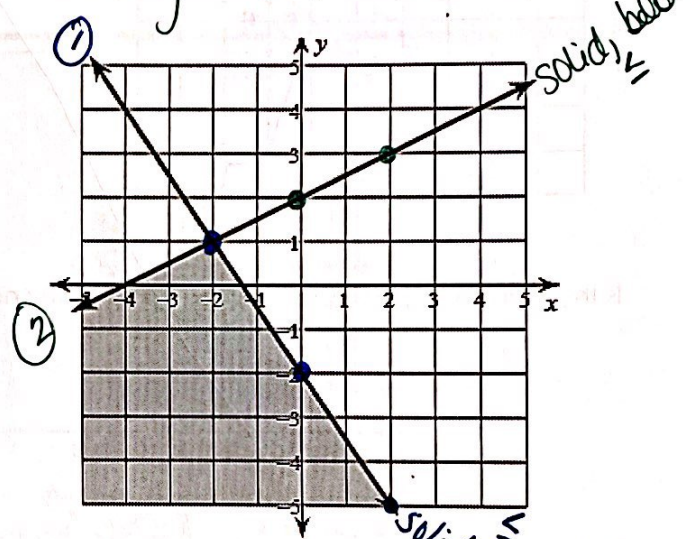
Line 1:  $y \leq -4x - 2$

Line 2:  $y < x + 3$



Line 1:  $y \leq -\frac{3}{2}x - 2$

Line 2:  $y \leq \frac{1}{2}x + 2$



Line 1:  $y \leq -3x - 2$

Line 2:  $y > 2x + 3$

