**Where Does the Point Fit In?**

**Directions:**

1. Determine if each point is a solution to inequality 1, inequality 2, both, or neither.
2. At the coordinates, plot either a **1**, **2**, **B** (for both), or **N** (for neither).

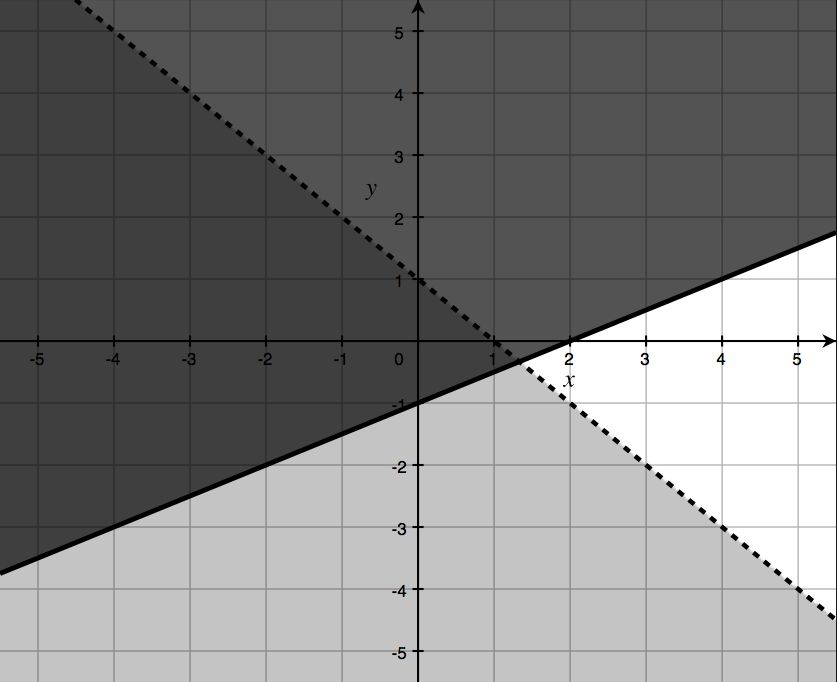
(0, 0) (0, -3) (4, 0) (0, 4)

(2, 2) (-4, 2) (-1, 2) (3, -1)

(4, -3) (-4, -4) (-5, 4) (2, 0)

(3.5, 1) (-½ , 2) (-3, 1½) (½ , 4½)

(5, -3) (4, 1) (-2, -2) (-4, 5)



1

2

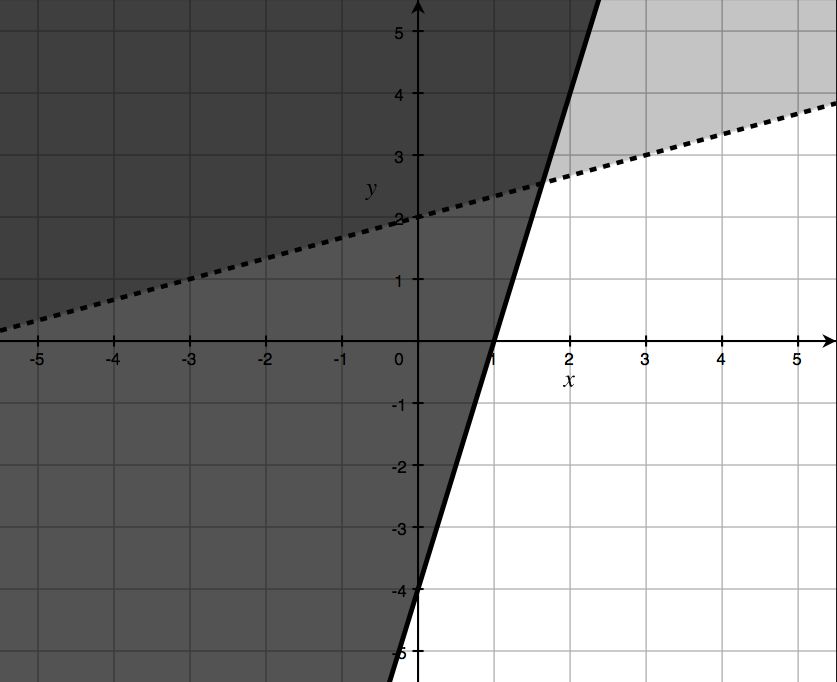
**Questions:**

1. Where are the B’s?
2. Where are the N’s?
3. Where are the 1s?
4. Where are the 2s?
5. Determine the two inequalities that are shown above.
6. Using your answer to question 5, determine if (-15, 18) would be labeled 1, 2, B, or N.

**Algebra 2 Honors Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lesson #3-2: Practice**

**Graphing Systems of Inequalities**



1. Determine if each point is a solution to the system of inequalities shown:

(3, 2) (-1, 4) (-2, 0)

(-4, 3) (5, 5) (0, 2)

(2, 4) (-10, 10) (10, 10)

1. Determine the inequalities that are shown in the graph.
2. Use your answer to question 2 to determine if the point (7, 26) is a solution to the system of inequalities shown.
3. Graph each system of inequalities. Shade each individual inequality lightly so that you can more easily see where the overlapping solution region is. Indicate that region by marking it with a capital “S”.

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**HW #3-1 Tally Sheet**

**1) a) b) c) d)**

**e) f) g) h)**

**2) a) b) c) d)**

**3) 4)**

**5) a) b) c) d)**

**6) a) b) c) d)**

**e) f)**