Name Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_

Algebra U6L6 – Systems of Inequalities

**Do Now…**

|  |  |
| --- | --- |
| **y = -2x – 5** **m**:\_\_\_\_\_\_\_**b:** ( 0, ) | **y = 2x + 5** **m**:\_\_\_\_\_\_\_**b:** ( 0, ) |
| **y = 2x - 5****m**:\_\_\_\_\_\_\_**b:** ( 0, ) | **y = -2x + 5****m**:\_\_\_\_\_\_\_**b:** ( 0, ) |
| **y < 2x - 5****m**:\_\_\_\_\_\_\_**b:** ( 0, ) | **y > 2x - 5****m**:\_\_\_\_\_\_**b:** ( 0, ) |

****

y ≥ 3x – 4

y < -x + 2

**🡪 Is the point (x,y) a solution to the system above?**

|  |  |  |  |
| --- | --- | --- | --- |
| **(x, y)**  | **y ≥ 3x – 4** | **y < -x + 2** | **Yes/No** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

****

y > 2x – 7

y < 2x + 3

 **Two solutions: \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

 **Two non-solutions: \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

****

x < 4

y ≥ - 2

**Two solutions: \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

 **Two non-solutions: \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

**Sketch a graph of the solution set to the system of inequalities**

****



Name 2 solutions: \_\_\_\_\_\_\_ and \_\_\_\_\_\_ Name 2 solutions: \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_

Name 2 non-solutions: \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_ Name 2 non-solutions: \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_



Name Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_

EXIT TICKET - Algebra U6L6: Systems of Linear Inequalities

****Graph the following system of inequalities: **y > 5x – 1 and -2y ≤ 4x + 6.** Then, identify two points that are solutions, and two points that aren’t solutions.

**Two Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Two Non-Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Name Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_

EXIT TICKET - Algebra U6L6: Systems of Linear Inequalities

****Graph the following system of inequalities: **y > 5x – 1 and -2y ≤ 4x + 6.** Then, identify two points that are solutions, and two points that aren’t solutions.

**Two Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Two Non-Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Name Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_

LIFEWORK - Algebra U6L6: Graphing Systems of Linear Inequalities

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**Algebra Lifework KEY**

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