**5.1 Graphing Systems of Inequalities**

**Steps for graphing inequalities:**

|  |
| --- |
| 1. (to fill in blanks see http://www.pinterest.com/pin/81416705735127369/) |
| 2. |
| 3. |
| 4. |

Example 1:

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

$$y>2x-2$$

Solutions

**SOLID LINE**





Example 2:

$$x+y\leq -2$$

$$5x+y<2$$

Solutions

**SHADING**

 Above

Below

**DASHED LINE**

**5.2 Graphing Systems of Inequalities**

**Steps for graphing inequalities:**

|  |
| --- |
| 1.  |
| 2. |
| 3. |
| 4. |

Example 1:

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

$$y>2x-2$$

Solutions

**SOLID LINE**





Example 2:

$$x+y\leq -2$$

$$5x+y<2$$

Solutions

**SHADING**

 Above

Below

**DASHED LINE**