

55.

$$X = \begin{array}{ccc|c} 11 & 4 & 4 & \\ 11 & -4 & 6 & \\ 3 & -6 & 0 & \end{array}$$

$$\left\{ \begin{array}{ccc} 3 & 4 & 4 \\ 4 & -4 & 6 \\ 6 & -6 & 0 \end{array} \right\}$$

$$Y = \begin{array}{ccc|c} 3 & 11 & 4 & \\ 4 & 11 & 6 & \\ 6 & 3 & 0 & \end{array}$$

$$Z = \begin{array}{ccc|c} 3 & 4 & 11 & \\ 4 & -4 & 11 & \\ 6 & -6 & 3 & \end{array}$$

0 - 2 +
3 - 4 ✓
5 ↑ -

4.5 Systems of Inequalities

How to sketch Inequalities

1. Graph the corresponding equation

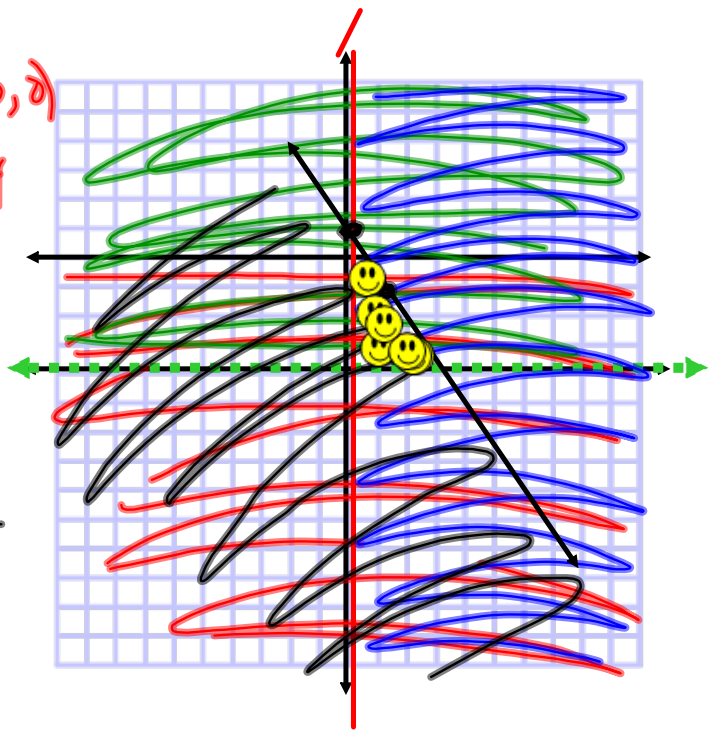
2. $<, >$ = dashed line

\leq, \geq = solid line

3. Test a point on either side of the line to shade

$$\begin{cases}
 y \leq 4 \\
 y = 4 \\
 y > 0 \\
 y = 0 \\
 x \geq 0 \\
 x = 0 \\
 y \leq -2x + 5 \\
 y = -2x + 5 \\
 m = -2 \quad b = 5
 \end{cases}$$

Test(0,0)
 $0 \leq 4$
 True



HW: p. 294

S2-64 even