# Chapter 6: Solving Linear Inequalities

**Study Guide**

## 6.1-6.3: Solve Inequalities by Multiplication and Division:

**Solve each inequality and graph your solution on a number line.**

**Ex:** $2x-1 \geq 7$

**Ex:** $-5 \geq 2x-3$

**Ex:** $18 > -4x+2$

## 6.3*: Solve Multi-Step Inequalities:

**Solve each inequality.**

**Ex:** $6(2x+3) \geq 9(x+2)$

**Ex:** $3(4x-2) < 2(6x-2)$

**Ex:** $-2(x+4) \geq -2x-3$

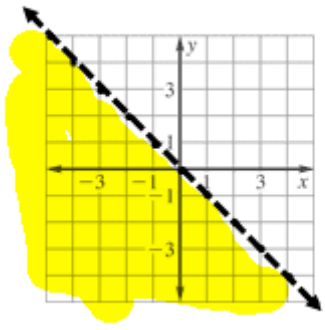
**Ex:** $-4(x-2) \geq -x+16$

## 6.7: Graph Linear Inequalities in Two Variables:

**Decide if an ordered pair is a solution to an inequality.**

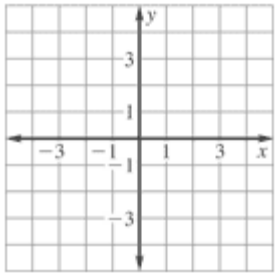
**Ex:** $\frac{3}{4}x-\frac{1}{3}y<6;\ \ (-8,\ 12)$

**Ex:** $(-1,\ 1)$



**Graph linear inequalities in two variables.**

**Ex:** $y \geq 3x - 4$




**Ex:** $x < y$