**Name:** _____     *Algebra 2*

**Date:** _____ **Bell:** _____     **Unit 1:** Systems of Equations & Inequalities
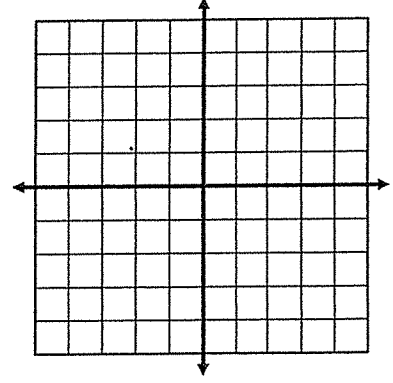
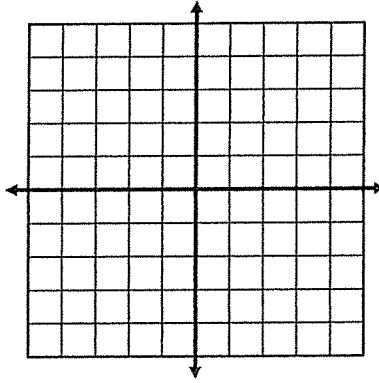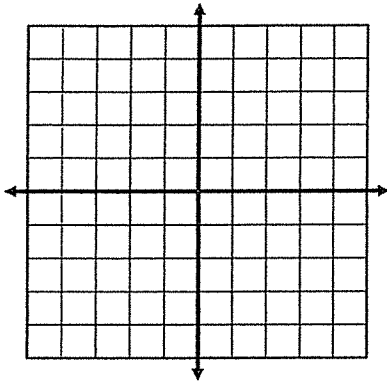, Linear Inequalities & Systems of Inequalities

**Graph the following linear inequalities.** *Show work when getting y alone.*
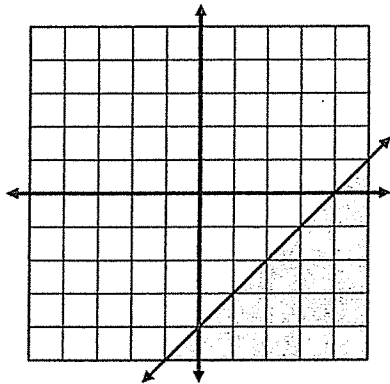
**1.** $y \leq -2x + 1$

**2.** $2x - 5y < 20$

**8.** $x - 3y < 0$



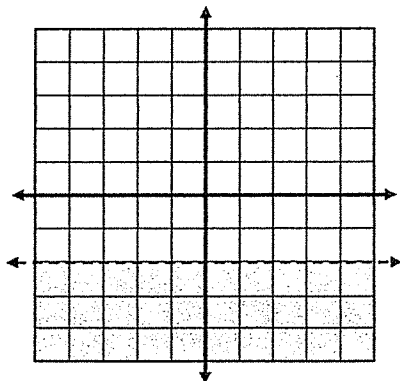**Select the inequality that best represents the graph.**

**4.**



**A.** $x + y \leq -4$

**B.** $x + y \geq -4$

**C.** $x - y \leq 4$

**D.** $x - y \geq 4$

**5.**



**A.** $x < -2$

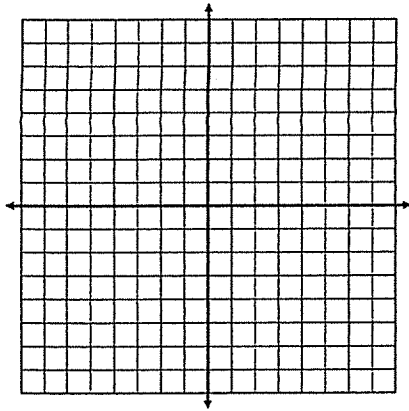**B.** $y < -2$
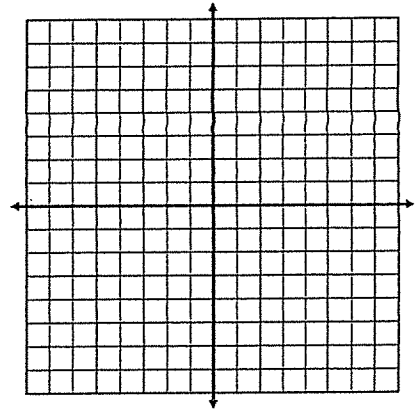
**C.** $x > -2$

**D.** $y > -2$

## SHOW WORK WHEN GETTING Y ALONE!

**Graph the following systems of linear inequalities.**
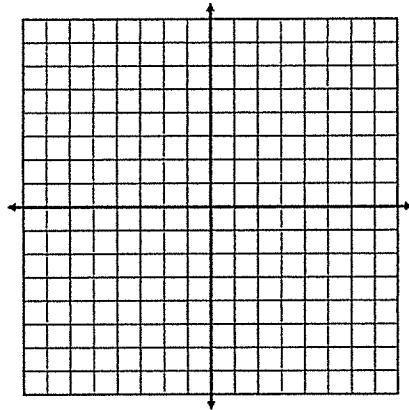
**6.** $x + y > 8$
   $x > 5$

**7.** $4x + y \geq 4$
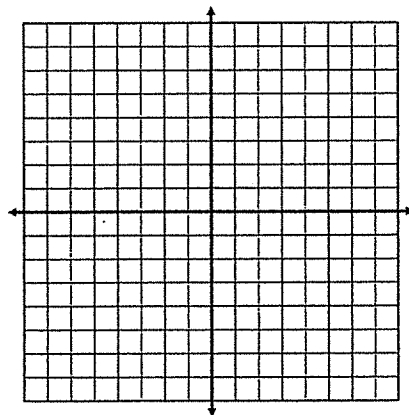   $3x - 2y > 14$

**Use the graph to determine which ordered pair is a solution to the system of inequalities.**

**8.** $y < 2x + 1$
   $y \leq -3x + 4$

A. (1, -4)

B. (1, 5)

C. (-3, 4)

D. (3, 0)

**9.** $x - 2y > -8$
   $x + y \geq 1$

A. (-5, 3)

B. (0, 5)

C. (3, -5)

D. (4, 0)