Name_____ Date _____

5.6 Practice A

In Exercises 1–4, tell whether the ordered pair is a solution of the inequality. Show all work for full credit.

1. $x - y > 2;\ (5, 4)$

2. $x + y \leq -3;\ (-1, -4)$

3. $5x + y \leq 12;\ (2, 2)$

4. $x - 3y > 6;\ (3, -1)$

In Exercises 5–10, tell whether the ordered pair is a solution of the inequality whose graph is shown. Then show your work by graphing your coordinate on the graph provided.
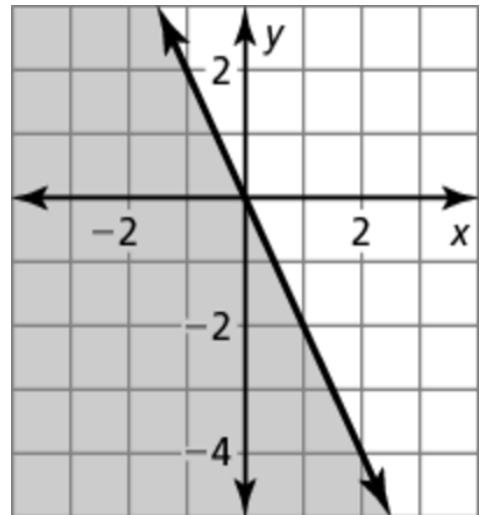
5. $A(1, 0)$ **6.** $B(-1, -1)$ **7.** $C(0, 0)$

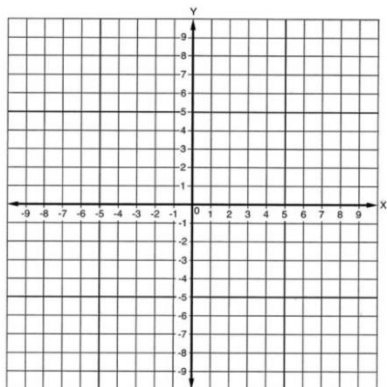**8.** $D(-3, 1)$ **9.** $E(2, -4)$ **10.** $F(0, 3)$
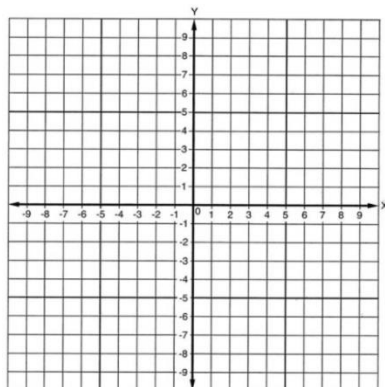
11. You have $150 to spend on video games. The inequality $7x + 32y \leq 150$ represents the number x of used video games and the number y of new video games that you can purchase. Can you purchase 10 used video games and 3 new video games? Explain.

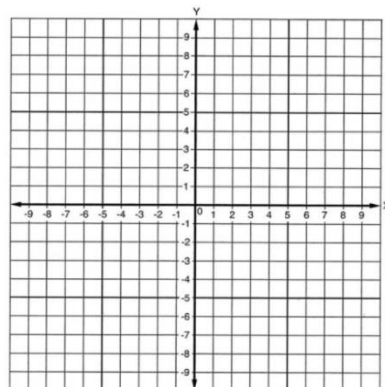**In Exercises 12–17, graph the inequality in a coordinate plane.**
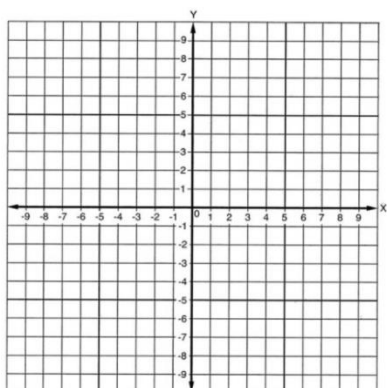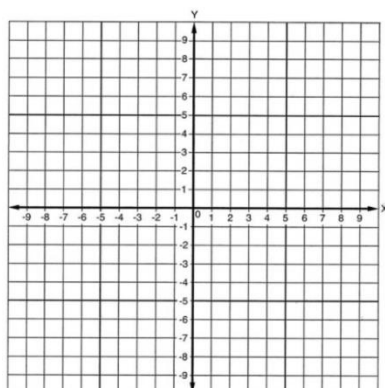
12. $y \geq 2$

13. $x < -3$

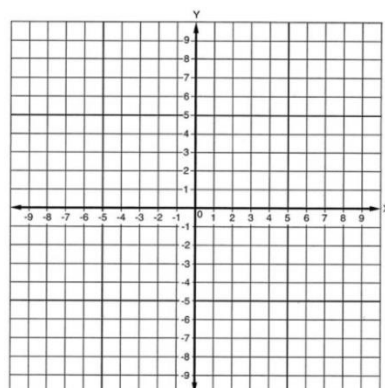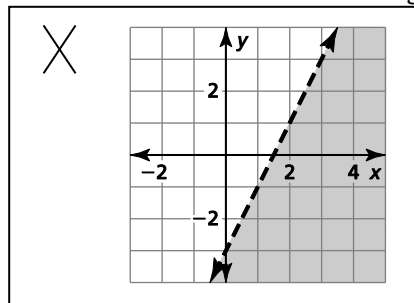**14.** $y < -1$

15. $y < 2x - 5$

16. $y \geq -x + 3$

17. $-3x + y \leq 1$

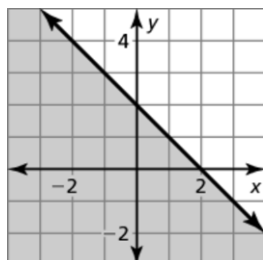**18.** Describe and correct the error in graphing $y > 2x - 3$.

In Exercises 19 and 20, write an inequality that represents the graph.

19.

20.