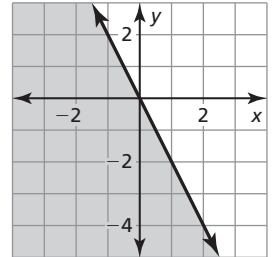Name_____ Date _____

5.6 Practice A

In Exercises 1–4, tell whether the ordered pair is a solution of the inequality.

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.

5. $(1, 0)$

6. $(-1, -1)$

7. $(0, 0)$

**8.** $(-3, 1)$

9. $(2, -4)$

10. $(0, 3)$

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 $y > 2x - 3$.
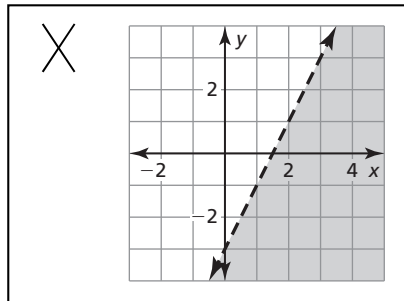
In Exercises 19 and 20, write an inequality that represents the graph.

19.

20.