

5.6 Notetaking with Vocabulary (continued)

Extra Practice

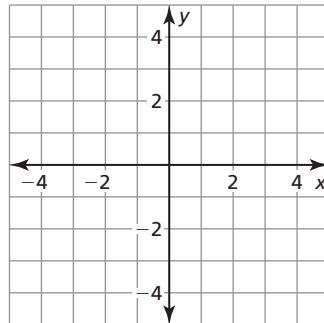
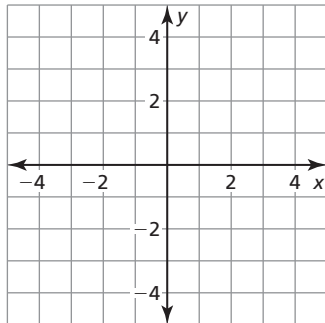
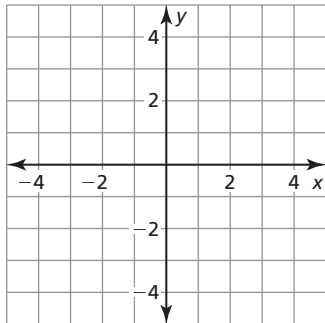
In Exercises 1–6, tell whether the ordered pair is a solution of the inequality.

1. $x + y > 5$; (3, 2) 2. $x - y \geq 2$; (5, 3) 3. $x + 2y \leq 4$; (-1, 2)

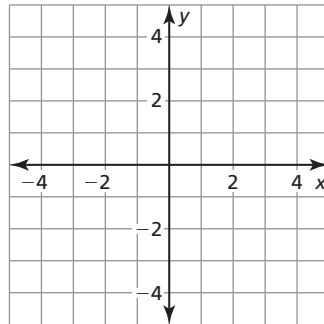
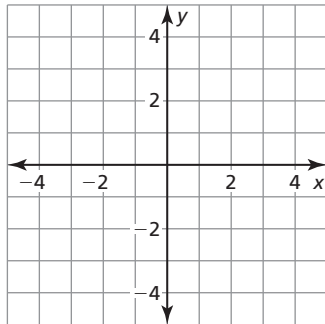
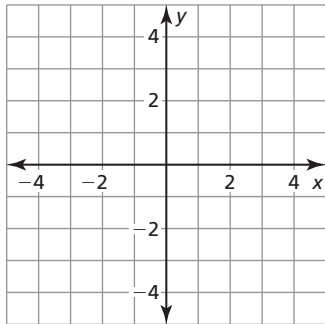
4. $5x + y < 7$; (2, -2) 5. $3x - 4y > 6$; (-1, -1) 6. $-x - 2y \geq 5$; (-2, -3)

In Exercises 7–18, graph the inequality in a coordinate plane.

7. $y < 4$ 8. $y > -1$ 9. $x > 3$

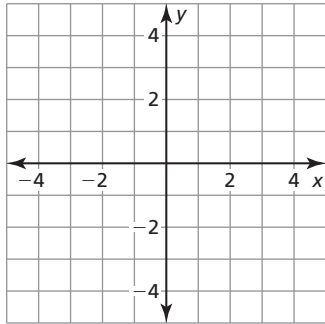


10. $x \leq -1$ 11. $y < -2$ 12. $x > -2$

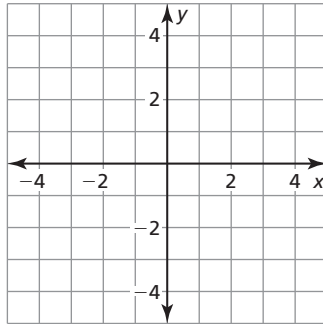


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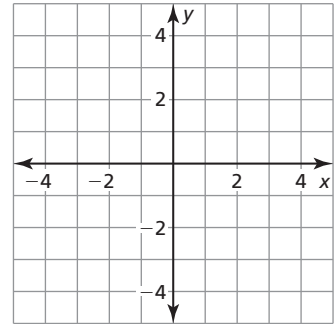
13. $y < 3x + 1$



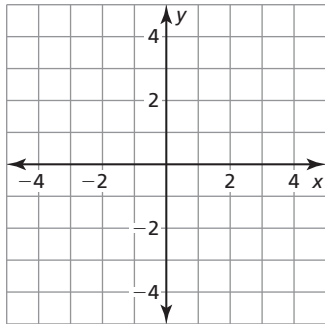
14. $y \geq -x + 1$



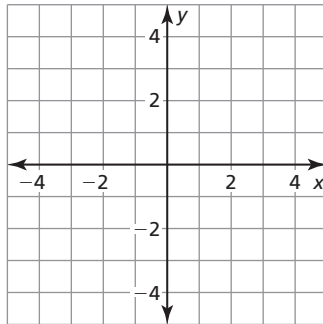
15. $x - y < 2$



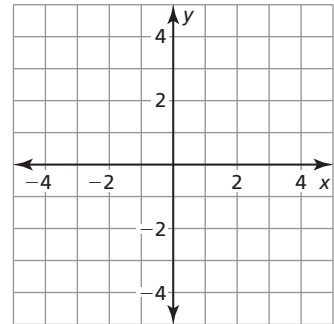
16. $x + y \geq -3$



17. $x + 2y < 4$



18. $-2x + 3y > 6$



19. An online store sells digital cameras and cell phones. The store makes a \$100 profit on the sale of each digital camera x and a \$50 profit on the sale of each cell phone y . The store wants to make a profit of at least \$300 from its sales of digital cameras and cell phones. Write and graph an inequality that represents how many digital cameras and cell phones they must sell. Identify and interpret two solutions of the inequality.

