

Extra Practice

Lesson 6-6

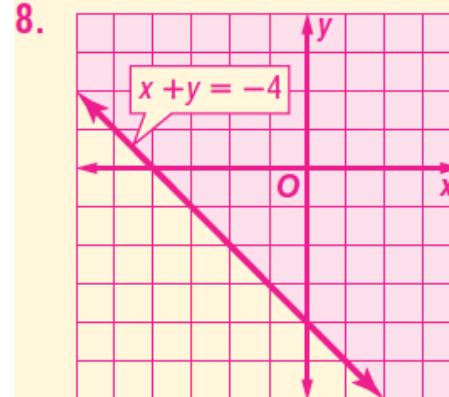
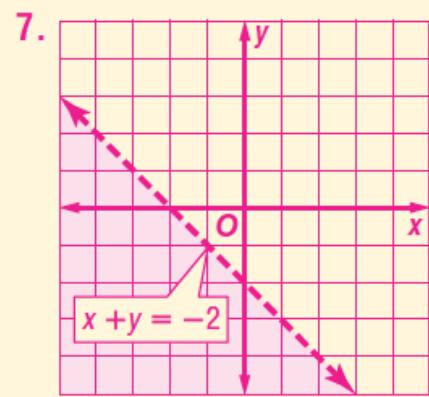
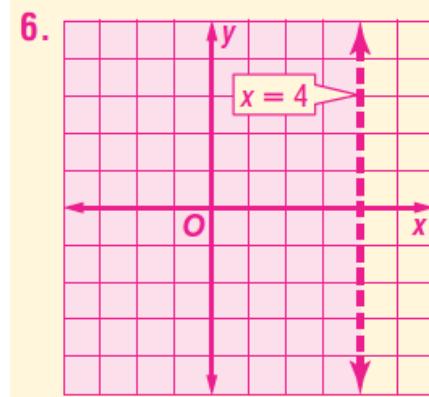
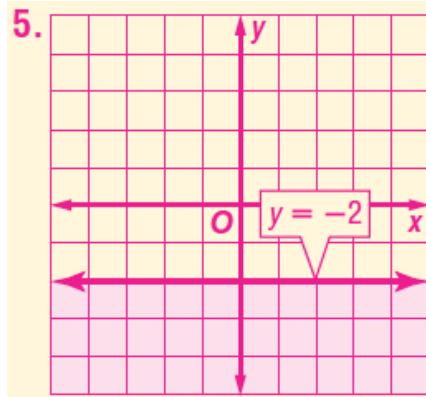
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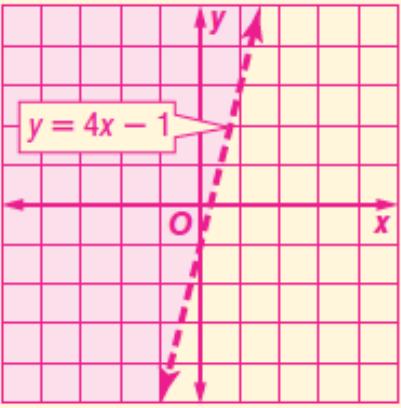
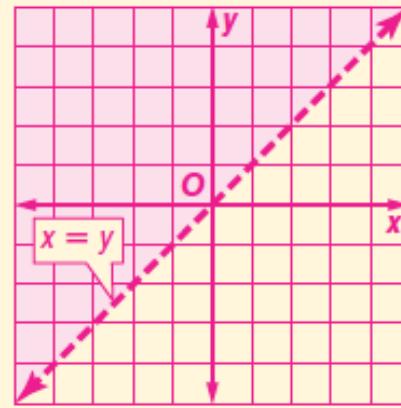
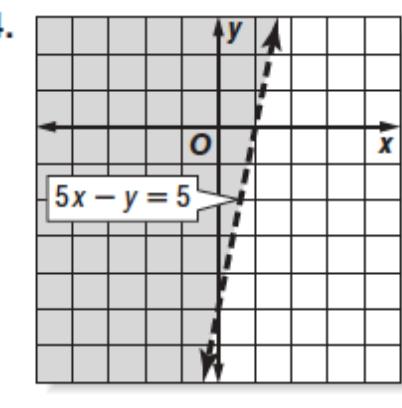
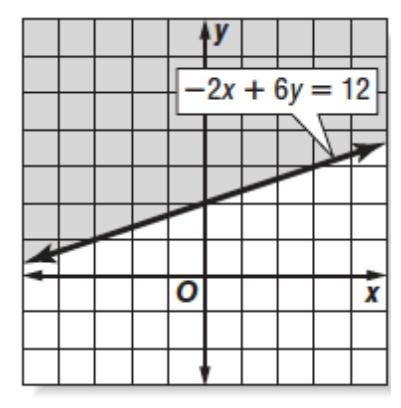
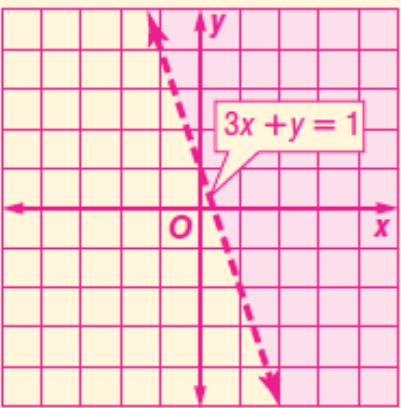
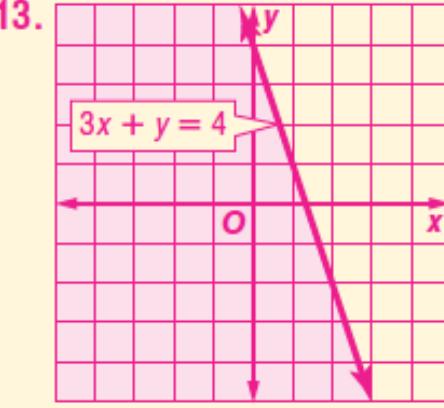
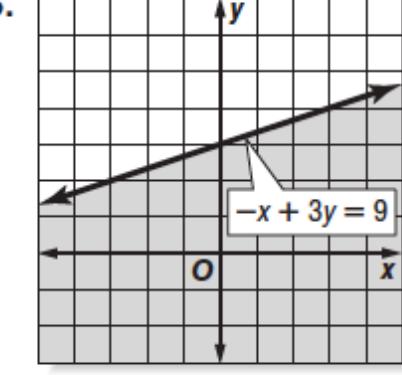
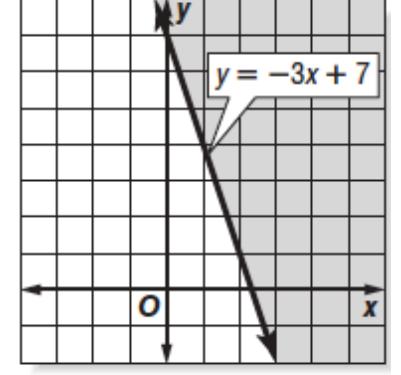
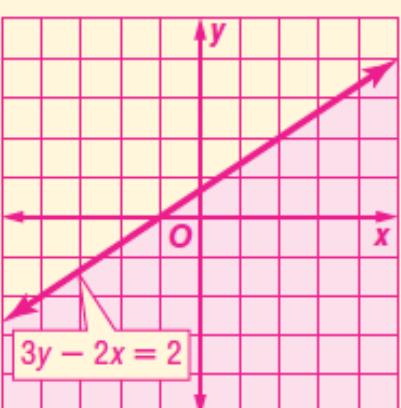
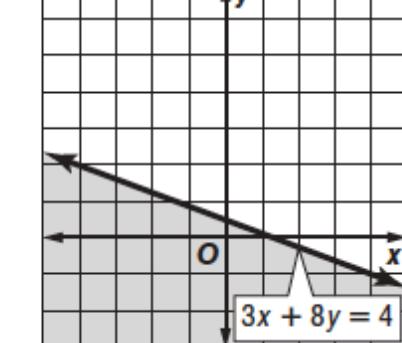
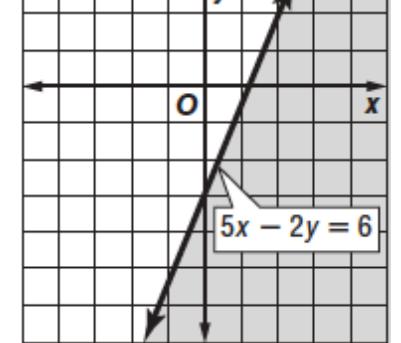
Determine which ordered pairs are part of the solution set for each inequality.

1. $x + y \geq 0$, $\{(0, 0), (1, -3), (2, 2), (3, -3)\}$ **$\{(0, 0), (2, 2), (3, -3)\}$**
2. $2x + y \leq 8$, $\{(0, 0), (-1, -1), (3, -2), (8, 0)\}$ **$\{(0, 0), (-1, -1), (3, -2)\}$**
3. $y > x$, $\{(0, 0), (2, 0), (-3, 4), (2, -1)\}$ **$\{(-3, 4)\}$**
4. $3x - 2y < 1$, $\{(0, 0), (3, 2), (-4, -5), (0, 6)\}$ **$\{(0, 0), (-4, -5), (0, 6)\}$**

Graph each inequality. **5–19. See margin.**

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|----------------------|------------------------|----------------------|
| 5. $y \leq -2$ | 6. $x < 4$ | 7. $x + y < -2$ |
| 8. $x + y \geq -4$ | 9. $y > 4x - 1$ | 10. $3x + y > 1$ |
| 11. $3y - 2x \leq 2$ | 12. $x < y$ | 13. $3x + y \leq 4$ |
| 14. $5x - y < 5$ | 15. $-2x + 6y \geq 12$ | 16. $-x + 3y \leq 9$ |
| 17. $y > -3x + 7$ | 18. $3x + 8y \leq 4$ | 19. $5x - 2y \geq 6$ |



9. 
 $y = 4x - 1$
12. 
 $x = y$
14. 
 $5x - y = 5$
15. 
 $-2x + 6y = 12$
10. 
 $3x + y = 1$
13. 
 $3x + y = 4$
16. 
 $-x + 3y = 9$
17. 
 $y = -3x + 7$
11. 
 $3y - 2x = 2$
18. 
 $3x + 8y = 4$
19. 
 $5x - 2y = 6$