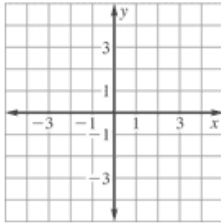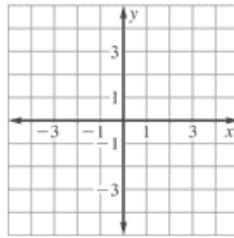**Graphing Systems of Inequalities**
Worksheet 429

Solve each system of inequalities by graphing.
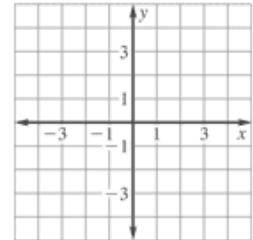
1. $x > -1$
   $y \le -3$

2. $y > 2$
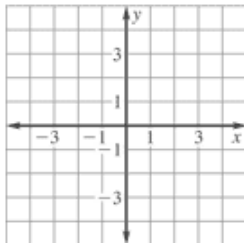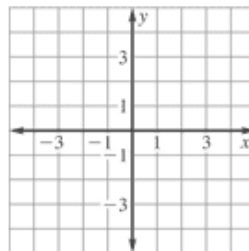 $x < -2$

3. $y > x + 3$
   $y \le -1$

4. $x < 2$
   $y - x \le 2$
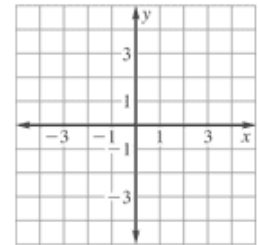
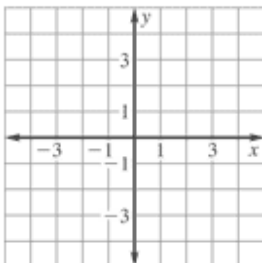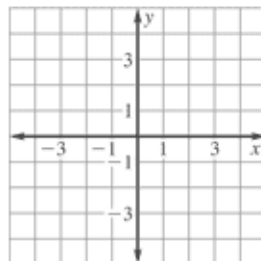**5.** $x + y \le -1$
   $x + y \ge 3$

6. $y - x > 4$
   $x + y > 2$

7. $y > x + 1$
   $y \ge -x + 1$

8. $y \ge -x + 2$
   $y < 2x - 2$

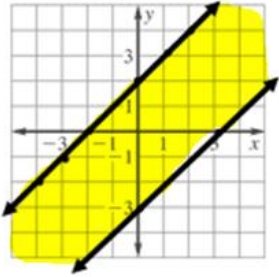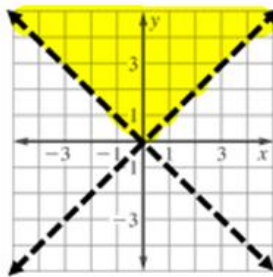**9.** $y < 2x + 4$
   $y \ge x + 1$
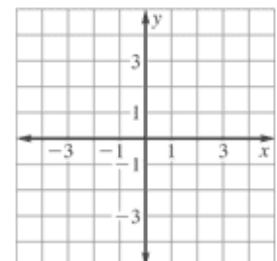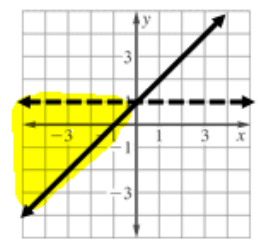
Write a system of inequalities for each graph.
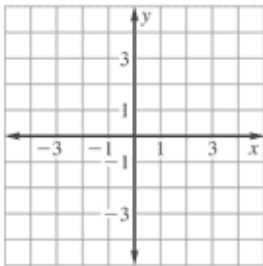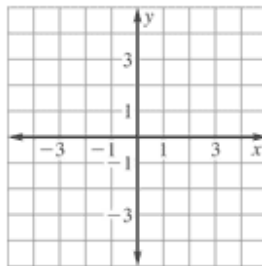
10.

11.

12.

Solve each system of inequalities by graphing.
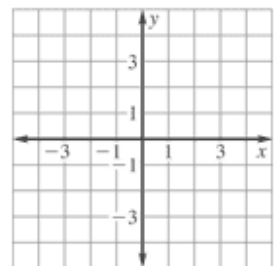
13. $y > x - 2$
$y \leq x$

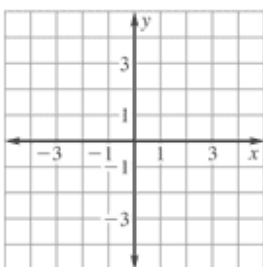**14.** $y \geq x + 2$
$y > 2x + 3$
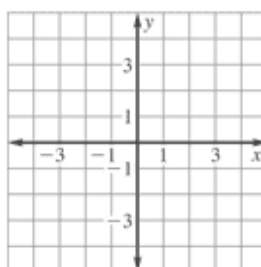

15. $x + y \geq 1$
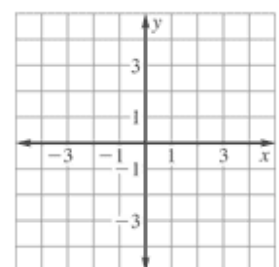$x + 2y > 1$

16. $y < 2x - 1$
$y > 2 - x$

17. $y > x - 4$
$2x + y \leq 2$

18. $2x - y \geq 2$
$x - 2y \geq 2$

19. FITNESS Diego started an exercise program in which each week he works out at a gym between 4.5 and 6 hours and walks between 9 and 12 miles. Write and graph a system of inequalities showing the number of hours he works out at the gym and number of miles he walks per week.

20. List 3 possible combinations of working out and walking that meets Diego's goal.

Diego's Routine