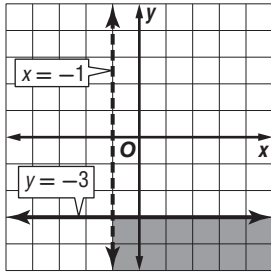


6-6 Skills Practice

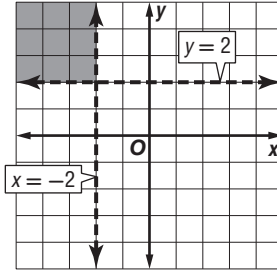
Systems of Inequalities

Solve each system of inequalities by graphing.

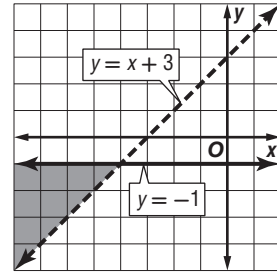
1. $x > -1$
 $y \leq -3$



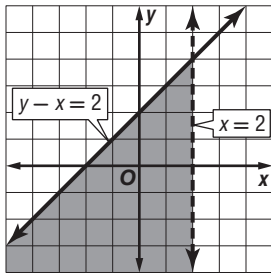
2. $y > 2$
 $x < -2$



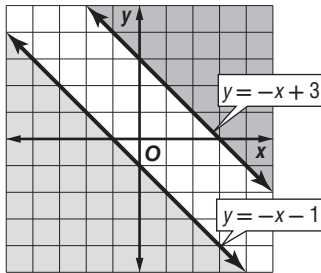
3. $y > x + 3$
 $y \leq -1$



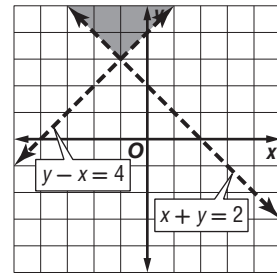
4. $x < 2$
 $y - x \leq 2$



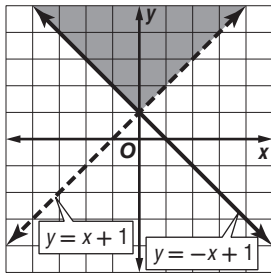
5. $x + y \leq -1$
 $x + y \geq 3$ \emptyset



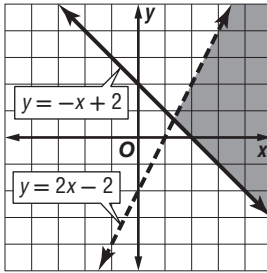
6. $y - x > 4$
 $x + y > 2$



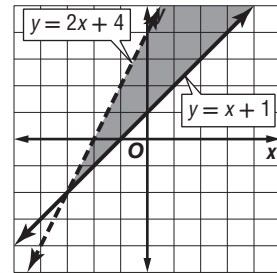
7. $y > x + 1$
 $y \geq -x + 1$



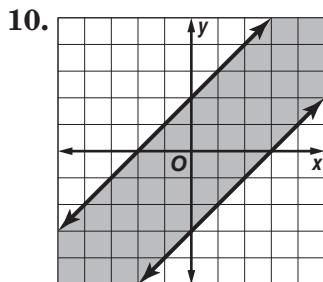
8. $y \geq -x + 2$
 $y < 2x - 2$



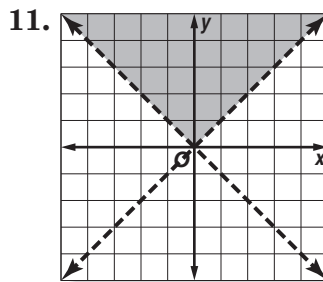
9. $y < 2x + 4$
 $y \geq x + 1$



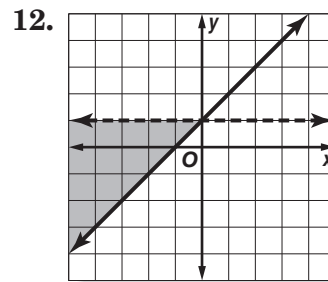
Write a system of inequalities for each graph.



$y \leq x + 2, y \geq x - 3$



$y > -x, y > x$



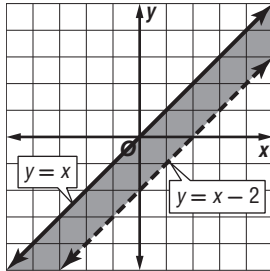
$y \geq x + 1, y < 1$

6-6 Practice

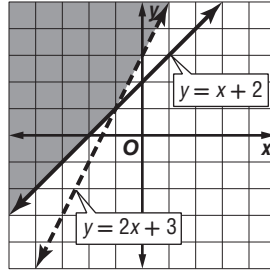
Systems of Inequalities

Solve each system of inequalities by graphing.

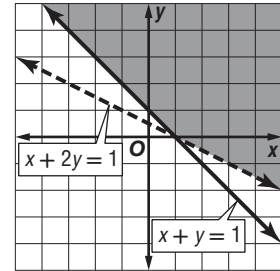
1. $y > x - 2$
 $y \leq x$



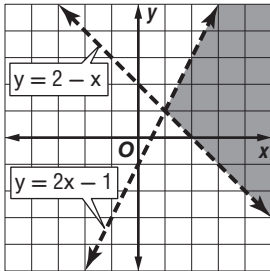
2. $y \geq x + 2$
 $y > 2x + 3$



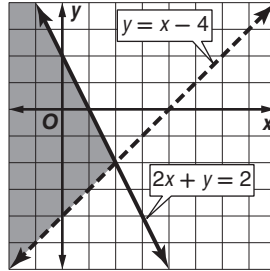
3. $x + y \geq 1$
 $x + 2y > 1$



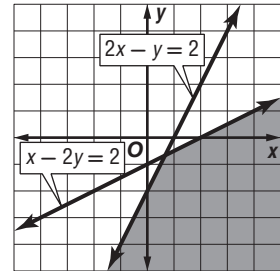
4. $y < 2x - 1$
 $y > 2 - x$



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

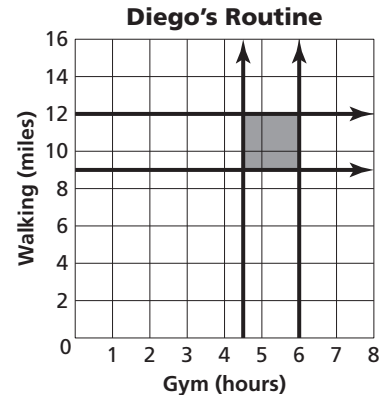


6. $2x - y \geq 2$
 $x - 2y \geq 2$



7. **FITNESS** Diego started an exercise program in which each week he works out at the gym between 4.5 and 6 hours and walks between 9 and 12 miles.

- Make a graph to show the number of hours Diego works out at the gym and the number of miles he walks per week.
- List three possible combinations of working out and walking that meet Diego's goals. **Sample answers:** gym 5 h, walk 9 mi; gym 6 h, walk 10 mi, gym 5.5 h, walk 11 mi



8. **SOUVENIRS** Emily wants to buy turquoise stones on her trip to New Mexico to give to at least 4 of her friends. The gift shop sells stones for either \$4 or \$6 per stone. Emily has no more than \$30 to spend.

- Make a graph showing the numbers of each price of stone Emily can purchase.
- List three possible solutions. **Sample answer:** one \$4 stone and four \$6 stones; three \$4 stones and three \$6 stones; five \$4 stones and one \$6 stone

