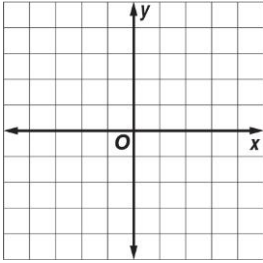


# In-Class Practice, Objective 6-2

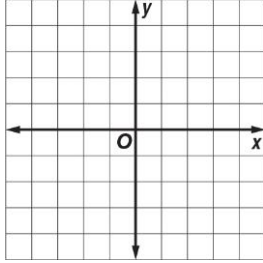
## Systems of Inequalities

Solve each system of inequalities by graphing.

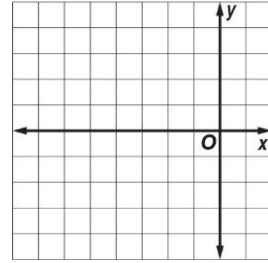
1.  $x > -1$   
 $y \leq -3$



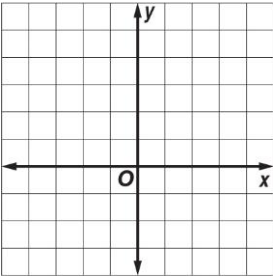
2.  $y > 2$   
 $x < -2$



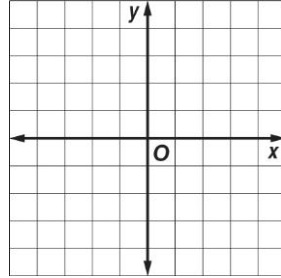
3.  $y > x + 3$   
 $y \leq -1$



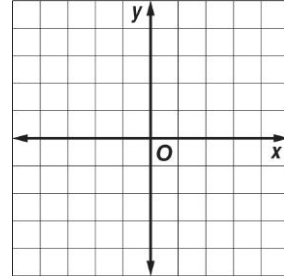
4.  $x < 2$   
 $y - x \leq 2$



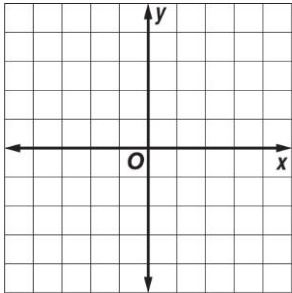
5.  $x + y \leq -1$   
 $x + y \geq 3$



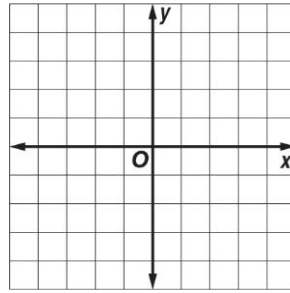
6.  $y - x > 4$   
 $x + y > 2$



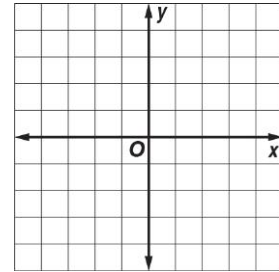
7.  $y > x + 1$   
 $y \geq -x + 1$



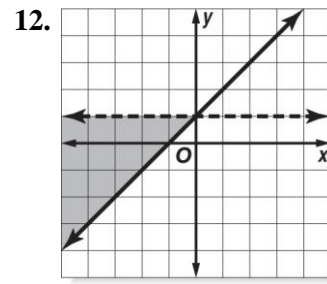
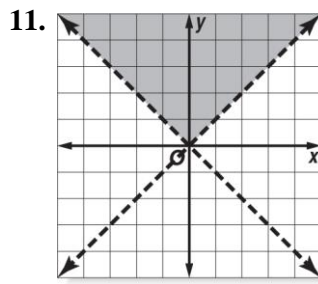
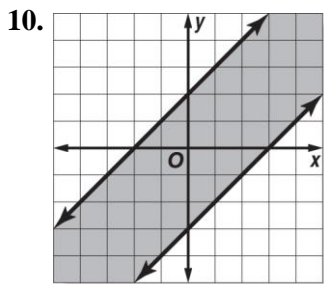
8.  $y \geq -x + 2$   
 $y < 2x - 2$



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



Write a system of inequalities for each graph.

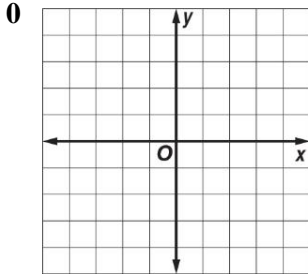


# In-Class Practice, Objective 6-2

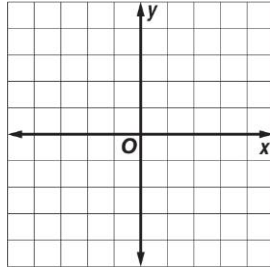
## Systems of Inequalities

Solve each system of inequalities by graphing.

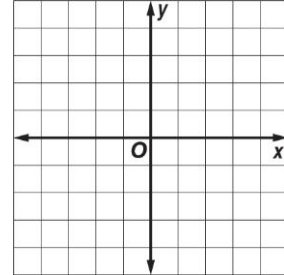
1.  $y > x - 2$   
 $y \leq x$



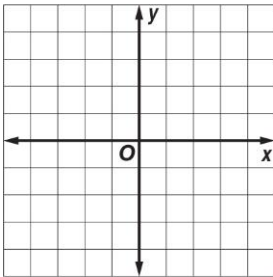
2.  $y \geq x + 2$   
 $y > 2x + 3$



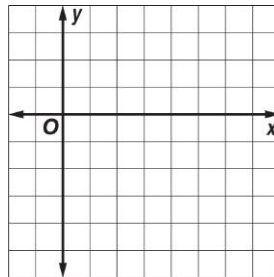
3.  $x + y \geq 1$   
 $x + 2y > 1$



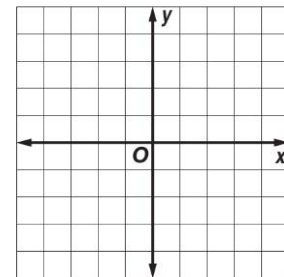
4.  $y < 2x - 1$   
 $y > 2 - x$



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

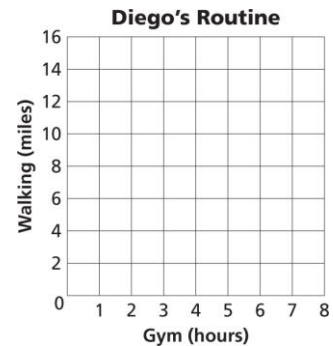


6.  $2x - y \geq 2$   
 $x - 2y \geq 2$



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.



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.

