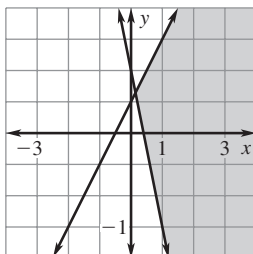


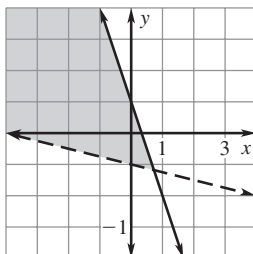
LESSON 7.6 **Practice C**
For use with pages 466–472

Tell whether the ordered pair is a solution of the system of inequalities.

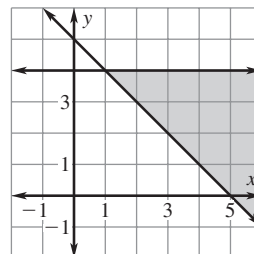
1. (0, 1)



2. (0, -1)

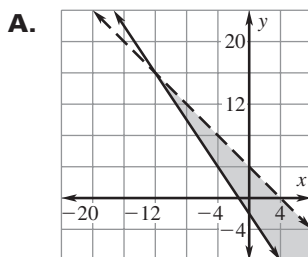


3. (1, 4)

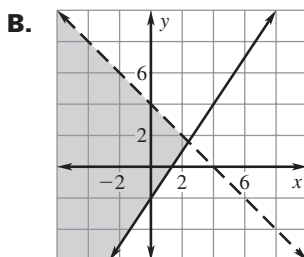


Match the system of inequalities with its graph.

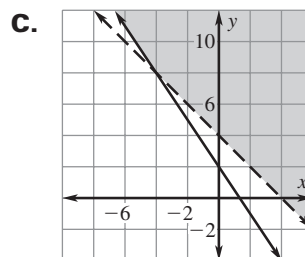
4. $3x + 2y \geq 4$
 $y > 4 - x$



5. $3x + 2y \geq -4$
 $x + y < 4$

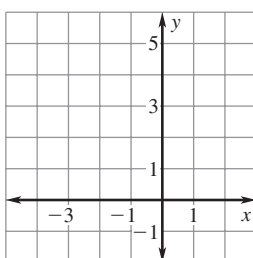


6. $3x - 2y \leq 4$
 $x + y < 4$

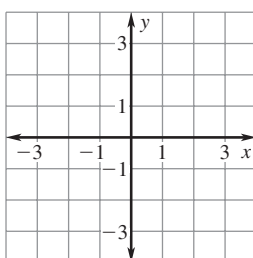


Graph the system of inequalities.

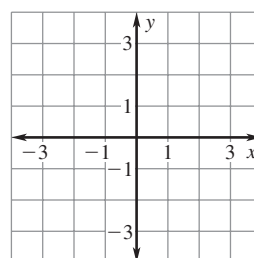
7. $x \geq -2$
 $y \leq 5$



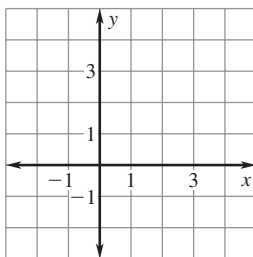
8. $x < 0$
 $y > -1$



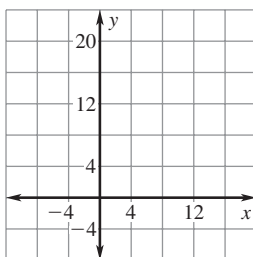
9. $3x + y < 0$
 $4x - y \leq 1$



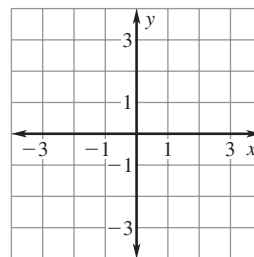
10. $x \geq 0, y \geq 0$
 $2x + y < 3$

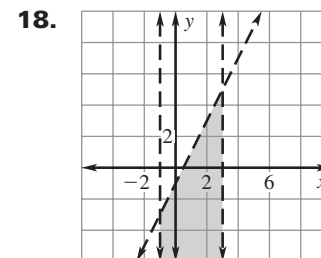
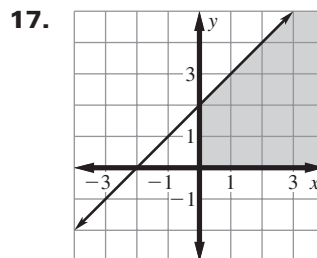
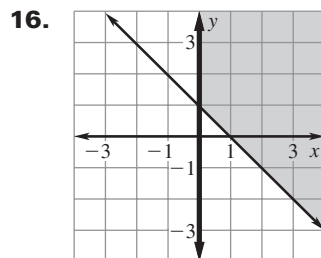
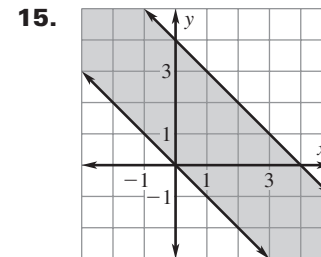
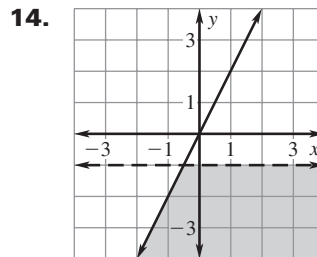
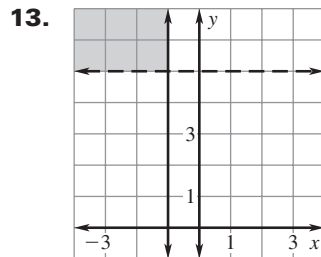


11. $x > 4, x < 8$
 $y \geq 2x + 1$

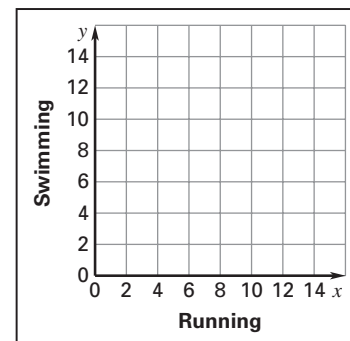


12. $y > -2, x \geq 0$
 $y \geq 3x$



LESSON
7.6**Practice C** *continued*
For use with pages 466–472**Write a system of inequalities for the shaded region.**

19. **Exercise** You work out at least 10 hours a week, but no more than 15 hours a week. You divide your exercise time between swimming and running. This week, you want to spend at least twice the amount of time on swimming as on running. Write and graph a system of linear inequalities that gives the amounts of time you spend on each different kind of exercise. Then give two possible ways you can exercise.



20. **School Play** The tickets for a school play cost \$8 for adults and \$5 for students. The auditorium in which the play is being held can hold at most 525 people. The organizers of the school play must make at least \$3000 to cover the costs of the set construction, costumes, and programs.
- Write a system of linear inequalities for the number of each type of ticket sold.
 - Graph the system of inequalities.
 - If the organizers sell out and sell twice as many student tickets as adult tickets, can they reach their goal? *Explain* how you got your answer.

