In Exercises 1-4, solve the system of linear equations by graphing.

1.  2.  3. 

4. A company is hiring a truck driver to deliver the company’s product. Truck driver A charges an initial fee of $50 plus $7 per mile. Truck driver B charges an initial fee of $175 plus $2 per mile.

a. Write a linear equation the represents each truck driver’s total cost *y* (in dollars)   
as a function of miles driven *x*.

b. Solve the system of linear equations by graphing. Interpret your solution.

In Exercises 5-8, solve the system of linear equations by substitution. Check your solution.

5.  6.  7. 

8. You spend $27 on seven bags of candy to throw while you participate in a parade.   
The bags cost either $5 or $3. How many bags of each amount did you purchase?

In Exercises 9-12, solve the system of linear equations by elimination. Check your solution.

9.  10.  11. 

12. School A and school B have taken a field trip to a professional baseball game. School A took 8 vans and 8 buses to get its 240 students to the game. School B took 4 vans and 1 bus to get its 54 students to the game. Find the number of students that were in each van and bus.

In Exercises 13-15, use only the slopes and *y*-intercepts of the graphs of the equations to determine whether the system of linear equations has *one solution*, *no solution*, or *infinitely many solutions.* Explain.

13.  14.  15. 