**1.**Consider the system of linear equations

$$6x + 3y = -10 \\ -3x + y = 5$$
.

- **a.** Solve the system by graphing.
- **b.** Solve the system by substitution.
- **c.** Solve the system by elimination.
- **d.** Which method do you prefer for this system? Explain.

**2.**Consider the inequalities  $y \le 2x + 5$  and x - y < -3.

- **a.** Graph both inequalities in the same coordinate plane. Shade the intersection of the half-planes.
- **b.** Determine if (0, 0) is a solution to the system of linear inequalities graphed in part (a).
- **c.** Determine if (1, 4) is a solution to the system of linear inequalities graphed in part (a).
- **d.** Determine if (1, 5) is a solution to the system of linear inequalities graphed in part (a).