

A. Solve this system by elimination.

$$x + y = 5$$

$$x - y = 7$$

B. Solve this system by substitution.

$$x + y = 5$$

$$x - y = 7$$

C. Solve this system by elimination.

$$4x - 5y = -18$$

$$5x + 4y = -2$$

**D. Solve this system by elimination.**

The yellow pages identify two different local electrical businesses. Business A charges \$50 for a service call, plus an additional \$40 per hour for labor. Business B charges \$30 for a service call, plus an additional \$45 per hour for labor.

- 22.** Let  $x$  represent the number of hours of labor and let  $y$  represent the total charge. Write a system of equations you could solve to find the lengths of a service call for which both businesses charge the same amount.
- 23.** Solve the system.
- 24.** Which company would you use? Why?

E. Solve this system using any method. Which method did you choose and why?

$$x = 2y + 9$$

$$2y = 3x - 19$$