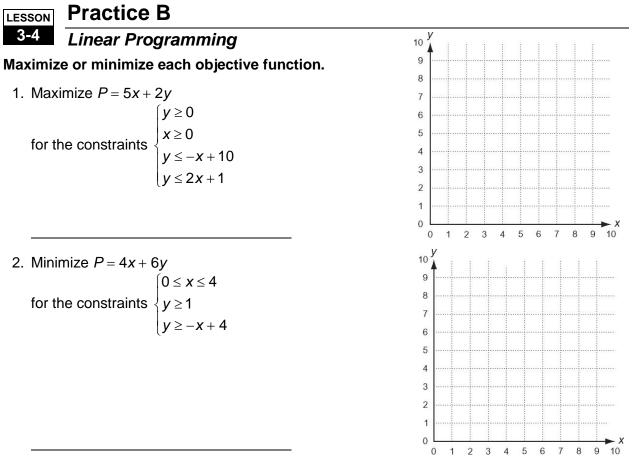
_____ Date _____



Solve.

- 3. A grocer buys cases of almonds and walnuts. Almonds are packaged 20 bags per case. The grocer pays \$30 per case of almonds and makes a profit of \$17 per case. Walnuts are packaged 24 bags per case. The grocer pays \$26 per case of walnuts and makes a profit of \$15 per case. He orders no more than 300 bags of almonds and walnuts together at a maximum cost of \$400.
 - a. Write the constraints. Use *x* for the number of cases of almonds ordered and *y* for the number of cases of walnuts ordered.
 - b. Graph the constraints.
 - c. Write the objective function for the profit.
 - d. How many cases of almonds and walnuts maximize the grocer's profit?

