

**Practice A**

For use with pages 398–403

Decide whether the ordered pair is a solution of the system of linear equations.

1. (1, 1), (-1, 0)

$2x + y = 3$

$x - 2y = -1$

4. (-6, -4), (3, -1)

$x - 3y = 6$

$2x - y = -8$

2. (-2, 4), (3, -4)

$4x + y = -4$

$-x - y = 1$

5. (-3, -4), (-1, 4)

$-4x + y = 8$

$5x - 3y = -3$

3. (5, 4), (4, 1)

$x - y = 3$

$3x - y = 11$

6. (0, -2), (-6, 2)

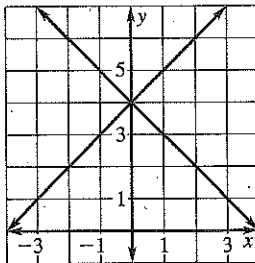
$-2x - 3y = 6$

$3x + 4y = -10$

Use the graph to solve the linear system. Check your solution algebraically.

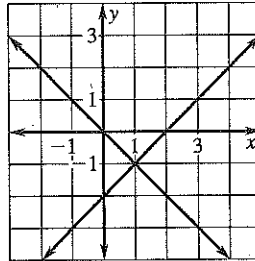
7.  $-x + y = 4$

$x + y = 4$



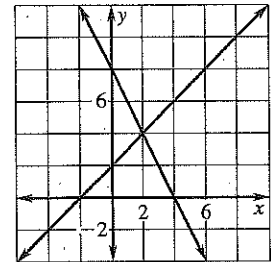
8.  $x + y = 0$

$-x + y = -2$



9.  $-x + y = 2$

$2x + y = 8$



Graph and check to solve the linear system.

10.  $x = 6$

$y = -2$

11.  $y = x - 2$

$y = -x + 4$

12.  $y = -2x - 4$

$y = -\frac{1}{2}x - 1$

13.  $3x + y = 6$

$-x + y = -2$

14.  $-2x + y = 1$

$y = 5$

15.  $x + 2y = 6$

$-3x + y = 10$

16. **Juice** You bought 12 1-gallon bottles of apple and orange juice for a school dance. The apple juice was on sale for \$1.00 per gallon bottle. The orange juice was \$1.50 per 1 gallon bottle. You spent \$15.00. Assign labels to the verbal model below. Write an algebraic model. How many bottles of each type of juice did you buy?

Number of bottles of apple juice

+

Number of bottles of orange juice

=

Total number of bottles

Price per apple juice bottle

Number of bottles of apple juice

+

Price per orange juice bottle

Number of bottles of orange juice

=

Total price