6. ★ **TAKS REASONING** Which ordered pair is a solution of the linear system $x + y = -2$ and $7x - 4y = 8$?
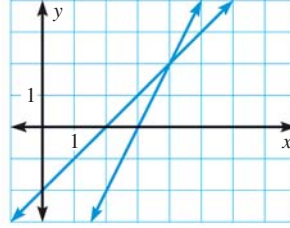
   Ⓐ (−2, 0)       Ⓑ (0, −2)       Ⓒ (2, 0)       Ⓓ (0, 2)

7. ★ **TAKS REASONING** Which ordered pair is a solution of the linear system $2x + 3y = 12$ and $10x + 3y = -12$?

   Ⓐ (−3, 3)       Ⓑ (−3, 6)       Ⓒ (3, 3)       Ⓓ (3, 6)

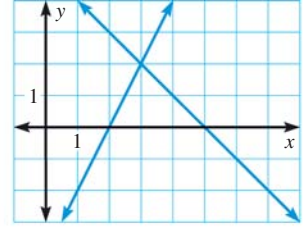**SOLVING SYSTEMS GRAPHICALLY** Use the graph to solve the linear system. Check your solution.

8. $x - y = 4$
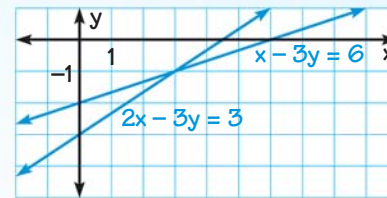$4x + y = 1$
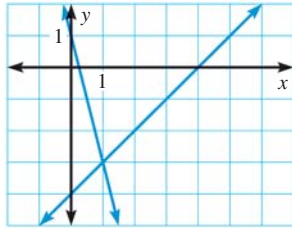
9. $-x + y = -2$
$2x - y = 6$

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



11. **ERROR ANALYSIS** *Describe* and correct the error in solving the linear system below.

$x - 3y = 6$   **Equation 1**
$2x - 3y = 3$   **Equation 2**



The solution is (3, −1).

**GRAPH-AND-CHECK METHOD** Solve the linear system by graphing. Check your solution.

12. $y = -x + 3$
$y = x + 1$

13. $y = -x + 4$
$y = 2x - 8$

14. $y = 2x + 2$
$y = 4x + 6$

15. $x - y = 2$
$x + y = -8$

16. $x + 2y = 1$
$-2x + y = -4$

17. $3x + y = 15$
$y = -15$

18. $2x - 3y = -1$
$5x + 2y = 26$

19. $6x + y = 37$
$4x + 2y = 18$

20. $7x + 5y = -3$
$-9x + y = -11$

21. $6x + 12y = -6$
$2x + 5y = 0$

22. $2x + y = 9$
$2x + 3y = 15$

23. $-5x + 3y = 3$
$4x + 3y = 30$

24. $\frac{3}{4}x + \frac{1}{4}y = \frac{13}{2}$

$x - \frac{3}{4}y = \frac{13}{2}$

25. $\frac{1}{5}x - \frac{2}{5}y = -\frac{8}{5}$

$-\frac{3}{4}x + y = 3$

26. $-1.6x - 3.2y = -24$
$2.6x + 2.6y = 26$

27. ★ **TAKS REASONING** Find values for $m$ and $b$ so that the system $y = \frac{3}{5}x - 1$ and $y = mx + b$ has (5, 2) as a solution.

28. **WRITING** Solve the linear system shown by graphing. *Explain* why it is important to check your solution.

   $y = 4x - 1.5$   **Equation 1**
   $y = -2x + 1.5$   **Equation 2**