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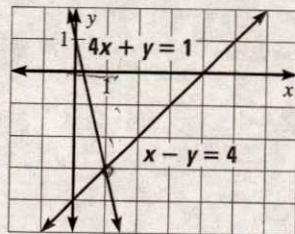
    A $(-2, 0)$ **B** $(0, -2)$ **C** $(2, 0)$ **D** $(0, 2)$

7. ◆ MULTIPLE CHOICE Which ordered pair is a solution of the linear system $2x + 3y = 12$ and $10x + 3y = -12$?
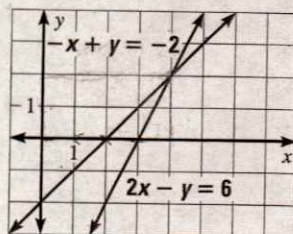
    A $(-3, 3)$ **B** $(-3, 6)$ **C** $(3, 3)$ **D** $(3, 6)$

SOLVING SYSTEMS GRAPHICALLY Use the graph to solve the linear system. Check your solution.
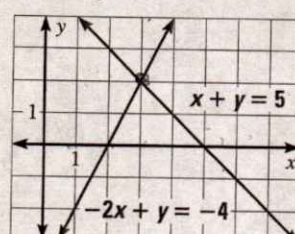
8. $x - y = 4$
    $4x + y = 1$

9. $-x + y = -2$
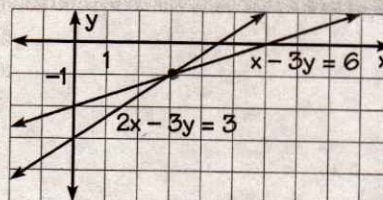 $2x - y = 6$

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. $x + 2y = 1$
    $-2x + y = 8$

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. OPEN-ENDED Find values for m and b so that the system $y = \frac{3}{5}x - 1$ and $y = mx + b$ has $(5, 2)$ as the only solution.

28. REASONING Suppose the graphs of the two equations of a linear system have the same slope but different y-intercepts. What conclusion can you make about the system? *Explain* your reasoning.