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## Practice 6-2

Graph each system to estimate the solution. Then use substitution to find the exact solution of the system.

1. $y=x$
$y=-x+2$
2. $y=x+4$
$y=3 x$
3. $y=3 x-10$
$y=2 x-5$
4. $x=-2 y+1$
$x=y-5$
5. $y=5 x+5$
$y=15 x-1$
6. $y=x-3$
$y=-3 x+25$

Solve each system using substitution. Write no solution or infinitely many solutions where appropriate.
7. $\begin{gathered}y=x-7 \\ 2 x+y=8\end{gathered}$
10. $3 x+y=10$
$y=-3 x+4$
13. $4 x+2 y=8$
$y=-2 x+4$
16. $5 x-3 y=-4$
$x+y=-4$
19. $3 x-y=4$
$2 x+y=16$
22. $2 x+5 y=-6$
$4 x+y=-12$
25. $5 x-6 y=19$
$4 x+3 y=10$
28. $3 x+4 y=8$
$4.5 x+6 y=12$
31. $2 x+5 y=62$
$3 x-y=23.3$
34. $5 x+6 y=-76$
$x+2 y=-44$
8. $y=3 x-6$
$-3 x+y=-6$
11. $y=2 x+7$
$y=5 x+4$
14. $6 x-3 y=6$
$y=2 x+5$
17. $\mathrm{y}=-\frac{2}{3} x+4$
$2 x+3 y=-6$
20. $x+y=0$
$x=y+4$
23. $4 x+3 y=-3$
$2 x+y=-1$
26. $2 x+y=6.6$
$5 x-2 y=0.3$
29. $3 x-4 y=-5$
$x=y+2$
32. $-5 x+y=6$
$2 x-3 y=60$
35. $3 x-2 y=10$
$y=\frac{3}{2} x-1$
9. $x+2 y=200$
$x=y+50$
12. $3 x-2 y=0$
$x+y=-5$
15. $2 x+4 y=-6$
$x-3 y=7$
18. $2 x+3 y=8$

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

21. $5 x+2 y=6$
$y=-\frac{5}{2} x+1$
22. $y=-\frac{2}{3} x+1$

$$
4 x+6 y=6
$$

27. $2 x-4 y=3.8$
$3 x-y=17.7$
28. $y=\frac{1}{3} x+10$
$x=3 y+6$
29. $x=\frac{3}{4} y-6$
$y=\frac{4}{3} x+8$
30. $-3 x+2 y=-6$
$-2 x+y=6$
31. At an ice cream parlor, ice cream cones cost $\$ 1.10$ and sundaes cost
$\$ 2.35$. One day, the receipts for a total of 172 cones and sundaes were $\$ 294.20$. How many cones were sold?
32. You purchase 8 gal of paint and 3 brushes for $\$ 152.50$. The next day, you purchase 6 gal of paint and 2 brushes for $\$ 113.00$. How much does each gallon of paint and each brush cost?
