$\qquad$ Class $\qquad$ Date $\qquad$

## Practice 9-7

Use the quadratic formula to solve each equation. If the equation has no solutions, write no solution. If necessary, round to the nearest hundredth.

1. $x^{2}+8 x+5=0$
2. $x^{2}-36=0$
3. $d^{2}-4 d-96=0$
4. $a^{2}-3 a-154=0$
5. $4 p^{2}-12 p-91=0$
6. $5 m^{2}+9 m=126$
7. $r^{2}-35 r+70=0$
8. $y^{2}+6 y-247=0$
9. $x^{2}+12 x-40=0$
10. $4 n^{2}-81=0$
11. $x^{2}+13 x+30=0$
12. $a^{2}-a=132$
13. $6 w^{2}-23 w+7=0$
14. $4 x^{2}+33 x=27$
15. $7 s^{2}-7=0$
16. $x^{2}+5 x-90=0$
17. $5 b^{2}-20=0$
18. $4 x^{2}-3 x+6=0$
19. $6 h^{2}+77 h-13=0$
20. $5 y^{2}=17 y+12$
21. $g^{2}-15 g=54$
22. $27 f^{2}=12$
23. $4 x^{2}-52 x+133=0$
24. $x^{2}+36 x+60=0$
25. $a^{2}-2 a-360=0$
26. $x^{2}+10 x+40=0$
27. $t^{2}-10 t=39$
28. $4 x^{2}+7 x-9=0$
29. $2 c^{2}-39 c+135=0$
30. $4 x^{2}+33 x+340=0$
31. $m^{2}-40 m+100=0$
32. $8 x^{2}+25 x+19=0$
33. $36 w^{2}-289=0$
34. $4 d^{2}+29 d-60=0$
35. $4 z^{2}+43 z+108=0$
36. $3 x^{2}-19 x+40=0$
37. $14 x^{2}=56$
38. $32 x^{2}-18=0$
39. $r^{2}+r-650=0$
40. $2 y^{2}=39 y-17$
41. $5 a^{2}-9 a+5=0$
42. $x^{2}=9 x+120$
43. $8 h^{2}-38 h+9=0$
44. $20 x^{2}=245$
45. $9 h^{2}-72 h=-119$
46. $x^{2}+3 x+8=0$
47. $6 m^{2}-13 m=19$
48. $9 x^{2}-81=0$
49. $4 s^{2}+8 s=221$
50. $6 p^{2}+25 p-119=0$
51. $2 s^{2}-59 s+17=0$
52. A rectangular painting has dimensions $x$ and $x+10$. The painting is in a frame 2 in. wide. The total area of the picture and the frame is $900 \mathrm{in} .^{2}$. What are the dimensions of the painting?
53. A ball is thrown upward from a height of 15 ft with an initial upward velocity of $5 \mathrm{ft} / \mathrm{s}$. Use the formula $h=-16 t^{2}+v t+s$ to find how long it will take for the ball to hit the ground.
54. Your community wants to put a square fountain in a park. Around the fountain will be a sidewalk that is 3.5 ft wide. The total area that the fountain and sidewalk can be is 700 $\mathrm{ft}^{2}$. What are the dimensions of the fountain?
55. The Garys have a triangular pennant of area 420 in. ${ }^{2}$ flying from the flagpole in their yard. The height of the triangle is 10 in . less than 5 times the base of the triangle. What are the dimensions of the pennant?
