Practice 9-7		Using the Quadratic Formula
Use the quadratic formula to solve each equation. If the equation has no solutions, write <i>no solution</i> . If necessary, round to the nearest hundredth.		
1. $x^2 + 8x + 5 = 0$	2. $x^2 - 36 = 0$	3. $d^2 - 4d - 96 = 0$
4. $a^2 - 3a - 154 = 0$	5. $4p^2 - 12p - 91 = 0$	6. $5m^2 + 9m = 126$
7. $r^2 - 35r + 70 = 0$	8. $y^2 + 6y - 247 = 0$	9. $x^2 + 12x - 40 = 0$
10. $4n^2 - 81 = 0$	11. $x^2 + 13x + 30 = 0$	12. $a^2 - a = 132$
13. $6w^2 - 23w + 7 = 0$	14. $4x^2 + 33x = 27$	15. $7s^2 - 7 = 0$
16. $x^2 + 5x - 90 = 0$	17. $5b^2 - 20 = 0$	18. $4x^2 - 3x + 6 = 0$
19. $6h^2 + 77h - 13 = 0$	20. $5y^2 = 17y + 12$	21. $g^2 - 15g = 54$
22. $27f^2 = 12$	23. $4x^2 - 52x + 133 = 0$	24. $x^2 + 36x + 60 = 0$
25. $a^2 - 2a - 360 = 0$	26. $x^2 + 10x + 40 = 0$	27. $t^2 - 10t = 39$
28. $4x^2 + 7x - 9 = 0$	29. $2c^2 - 39c + 135 = 0$	30. $4x^2 + 33x + 340 = 0$
31. $m^2 - 40m + 100 = 0$	32. $8x^2 + 25x + 19 = 0$	33. $36w^2 - 289 = 0$
34. $4d^2 + 29d - 60 = 0$	35. $4z^2 + 43z + 108 = 0$	36. $3x^2 - 19x + 40 = 0$
37. $14x^2 = 56$	38. $32x^2 - 18 = 0$	39. $r^2 + r - 650 = 0$
40. $2y^2 = 39y - 17$	41. $5a^2 - 9a + 5 = 0$	42. $x^2 = 9x + 120$
43. $8h^2 - 38h + 9 = 0$	44. $20x^2 = 245$	45. $9h^2 - 72h = -119$
46. $x^2 + 3x + 8 = 0$	47. $6m^2 - 13m = 19$	48. $9x^2 - 81 = 0$
49. $4s^2 + 8s = 221$	50. $6p^2 + 25p - 119 = 0$	51. $2s^2 - 59s + 17 = 0$

- **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 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 ft/s. Use the formula $h = -16t^2 + vt + s$ 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 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?

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