Name _____ Class _____ Date _____

8-8 Practice

Form G

Use the quadratic formula to solve each equation.

1. $7c^2 + 8c + 1 = 0$

2. $2w^2 - 28w = -98$

3. $2j^2 - 3j = -1$

4. $2x^2 - 6x + 4 = 0$

5. $2n^2 - 6n = 8$

6. $-7d^2 + 2d + 9 = 0$

7. $2a^2 + 4a - 6 = 0$

8. $-3p^2 + 17p = 20$

9. $4d^2 - 8d + 3 = 0$

Use the quadratic formula to solve each equation. Round answers to the nearest hundredth.

10. $h^2 - 2h - 2 = 0$

11. $5x^2 + 3x = 1$

12. $-z^2 - 4z = -2$

13. $t^2 + 10t = -22$

14. $3n^2 + 10n = 5$

15. $s^2 - 10s + 14 = 0$

17. $h^2 + 4h + 7 = 0$

18. $a^2 - 4a - 12 = 0$

19. $24y^2 - 11y - 14 = 0$

20. $2p^2 - 7p - 4 = 0$

21. $4x^2 - 144 = 0$

22. $f^2 - 2f - 35 = 0$

Name _____ Class _____ Date _____

8-8 Practice (BACK PAGE)

Form G

Find the roots to these special cases:

24. $w^2 - 144$ **25.** $a^2 - 49$ **26.** $y^2 - 121$

27. $t^2 - 25$ **28.** $k^2 - 64$ **29.** $m^2 - 225$

Find the roots to these problems by factoring first:

13. $y^2 + 5y + 6$ **14.** $t^2 + 9t + 18$ **15.** $x^2 + 16x + 63$

16. $n^2 - 12n + 35$ **17.** $r^2 - 12r + 27$ **18.** $q^2 - 12q + 20$

19. $w^2 + 19w + 60$ **20.** $b^2 - 11b + 24$ **21.** $z^2 - 13z + 12$

1. $3n^2 - 8n - 3$ **2.** $5a^2 - 22a + 8$ **3.** $2s^2 + 13s + 6$

4. $6t^2 + 21t - 12$ **5.** $9b^2 - 65b + 14$ **6.** $5z^2 + 11z + 6$

7. $7r^2 - 9r - 10$ **8.** $2m^2 + m - 21$ **9.** $3g^2 + 20g + 32$