

7-7

1. $(m + 4)(m + 1)$
 $m^2 + 5m + 4$

3. $(b + 3)(b + 4)$
 $b^2 + 7b + 12$

5. $(r + 1)(r - 2)$
 $r^2 - r - 2$

7. $(3c + 1)(c - 2)$
 $3c^2 - 5c - 2$

9. $(d - 1)(5d - 4)$
 $5d^2 - 9d + 4$

2. $(x + 2)(x + 2)$
 $x^2 + 4x + 4$

4. $(t + 4)(t - 3)$
 $t^2 + t - 12$

6. $(n - 5)(n + 1)$
 $n^2 - 4n - 5$

8. $(2x - 6)(x + 3)$
 $2x^2 - 18$

10. $(2\ell + 5)(\ell - 4)$
 $2\ell^2 - 3\ell - 20$

11. $(3n - 7)(n + 3)$
 $3n^2 + 2n - 21$

13. $(3b + 3)(3b - 2)$
 $9b^2 + 3b - 6$

15. $(4c + 1)(2c + 1)$
 $8c^2 + 6c + 1$

17. $(4h - 2)(4h - 1)$
 $16h^2 - 12h + 2$

19. $(w + 4)(w^2 + 3w - 6)$
 $w^3 + 7w^2 + 6w - 24$

12. $(q + 5)(5q - 1)$
 $5q^2 + 24q - 5$

14. $(2m + 2)(3m - 3)$
 $6m^2 - 6$

16. $(5a - 2)(2a - 3)$
 $10a^2 - 19a + 6$

18. $(x - y)(2x - y)$
 $2x^2 - 3xy + y^2$

20. $(t + 1)(t^2 + 2t + 4)$
 $t^3 + 3t^2 + 6t + 4$

$$21. (k + 4)(k^2 + 3k - 6) \\ k^3 + 7k^2 + 6k - 24$$

$$22. (m + 3)(m^2 + 3m + 5) \\ m^3 + 6m^2 + 14m + 15$$

7-8

$$1. (n + 9)^2 \\ n^2 + 18n + 81$$

$$2. (q + 8)^2 \\ q^2 + 16q + 64$$

$$3. (x - 10)^2 \\ x^2 - 20x + 100$$

$$4. (r - 11)^2 \\ r^2 - 22r + 121$$

$$5. (p + 7)^2 \\ p^2 + 14p + 49$$

$$6. (b + 6)(b - 6) \\ b^2 - 36$$

$$7. (z + 13)(z - 13) \\ z^2 - 169$$

$$8. (4j + 2)^2 \\ 16j^2 + 16j + 4$$

$$9. (5w - 4)^2 \\ 25w^2 - 40w + 16$$

$$10. (6h - 1)^2 \\ 36h^2 - 12h + 1$$

$$11. (3m + 4)^2 \\ 9m^2 + 24m + 16$$

$$12. (7v - 2)^2 \\ 49v^2 - 28v + 4$$

$$13. (7k + 3)(7k - 3) \\ 49k^2 - 9$$

$$14. (4d - 7)(4d + 7) \\ 16d^2 - 49$$

$$15. (3g + 9h)(3g - 9h) \\ 9g^2 - 81h^2$$

$$16. (4q + 5t)(4q - 5t) \\ 16q^2 - 25t^2$$

$$17. (a + 6u)^2 \\ a^2 + 12au + 36u^2$$

$$18. (5r + s)^2 \\ 25r^2 + 10rs + s^2$$

$$19. (6h - m)^2 \\ 36h^2 - 12hm + m^2$$

$$22. (4b - 7v)^2 \\ 16b^2 - 56bv + 49v^2$$

$$25. (6a - 7b)(6a + 7b) \\ 36a^2 - 49b^2$$

$$28. (3p^3 + 2m)^2 \\ 9p^6 + 12p^3m + 4m^2$$

$$31. (6b^3 - g)^2 \\ 36b^6 - 12b^3g + g^2$$

$$20. (k - 6y)^2 \\ k^2 - 12ky + 36y^2$$

$$23. (6n + 4p)^2 \\ 36n^2 + 48np + 16p^2$$

$$26. (8h + 3d)(8h - 3d) \\ 64h^2 - 9d^2$$

$$29. (5a^2 - 2b)^2 \\ 25a^4 - 20a^2b + 4b^2$$

$$32. (2b^2 - g)(2b^2 + g) \\ 4b^4 - g^2$$

$$21. (u - 7p)^2 \\ u^2 - 14up + 49p^2$$

$$24. (5q + 6t)^2 \\ 25q^2 + 60qt + 36t^2$$

$$27. (9x + 2y^2)^2 \\ 81x^2 + 36xy^2 + 4y^4$$

$$30. (4m^3 - 2t)^2 \\ 16m^6 - 16m^3t + 4t^2$$

$$33. (2v^2 + 3x^2)(2v^2 + 3x^2) \\ 4v^4 + 12v^2x^2 + 9x^4$$