

In Exercises 23–30, factor the polynomial completely.
(See Example 3.)

23. $y^3 - 5y^2 + 6y - 30$ 24. $m^3 - m^2 + 7m - 7$

25. $3a^3 + 18a^2 + 8a + 48$

26. $2x^3 - 20x^2 + 54x - 50$

27. $x^3 - 8x^2 - 4x + 32$ 28. $z^3 - 5z^2 - 9z + 45$

29. $4q^3 - 16q^2 - 9q + 36$

30. $16n^3 + 32n^2 - n - 2$

In Exercises 31–38, factor the polynomial completely. (See Example 4.)

31. $49t^4 - 9$

32. $4m^4 - 25$

33. $c^4 + 9c^2 + 20$

34. $y^4 - 3y^2 - 28$

35. $16c^4 - 81$

36. $81a^4 - 256$

37. $3x^3 + 3x^2 - 60x^2$

38. $4n^3 - 32n^2 + 48n$

In Exercises 39–44, determine whether the binomial is a factor of $f(x)$. (See Example 5.)

35) $16z^4 - 81$

$$(4z^2)^2 - (9)^2$$

$$(4z^2 - 9)(4z^2 + 9)$$

$$(2z - 3)(2z + 3)(4z^2 + 9)$$

36) $81a^4 - 256$

$$(9a^2)^2 - (16)^2$$

$$(9a^2 - 16)(9a^2 + 16)$$

$$(3a - 4)(3a + 4)(9a^2 + 16)$$



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Robert R. Redfield



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Intelligent Computation in Big Data Era Hongzhi Wang, Haoliang Qi, Wanxiang Che, Zhaowen Qiu, Leilei Kong, Zhongyuan Han, Junyu Lin, Zeguang Lu, 2014-12-29 This book constitutes the refereed proceedings of the International Conference of Young Computer Scientists, Engineers, and Educators (ICYCSEE 2015) held in Harbin, China, in January 2015. The 61 revised full papers presented were carefully reviewed and selected from 200 submissions. The papers cover a wide range of topics related to intelligent computation in the Big Data era, such as artificial intelligence, machine learning, algorithms, natural language processing, image processing, MapReduce, social network. *Exemplary Promising Mathematics Programs*, 1999

Planting the Seeds of Algebra, 3-5 Monica Neagoy, 2014-12-23 Planting the Seeds of Algebra 3-5 will empower teachers with theoretical and practical knowledge about both the content and pedagogy of algebraic instruction and shows them the different faces of algebra as it appears in the early grades. *Computational and Algorithmic Problems in Finite Fields* Igor Shparlinski, 2012-12-06 This volume presents an exhaustive treatment of computation and algorithms for finite fields. Topics covered include polynomial factorization, finding irreducible and primitive polynomials, distribution of these primitive polynomials, and of primitive points on elliptic curves, constructing bases of various types, and new applications of

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