

Page 349 #33-57 ODD

SUM OR DIFFERENCE OF CUBES Factor the polynomial.

33. $x^3 - 8$

34. $x^3 + 64$

35. $216x^3 + 1$

36. $125x^3 - 8$

37. $1000x^3 + 27$

38. $27x^3 + 216$

39. $32x^3 - 4$

40. $2x^3 + 54$

GROUPING Factor the polynomial by grouping.

41. $x^3 + x^2 + x + 1$

42. $10x^3 + 20x^2 + x + 2$

43. $x^3 + 3x^2 + 10x + 30$

44. $x^3 - 2x^2 + 4x - 8$

45. $2x^3 - 5x^2 + 18x - 45$

46. $-2x^3 - 4x^2 - 3x - 6$

47. $3x^3 - 6x^2 + x - 2$

48. $2x^3 - x^2 + 2x - 1$

49. $3x^3 - 2x^2 - 9x + 6$

QUADRATIC FORM Factor the polynomial.

50. $16x^4 - 1$

51. $x^4 + 3x^2 + 2$

52. $x^4 - 81$

53. $81x^4 - 256$

54. $4x^4 - 5x^2 - 9$

55. $x^4 + 10x^2 + 16$

56. $81 - 16x^4$

57. $32x^6 - 2x^2$

58. $6x^5 - 51x^3 - 27x$