

Multiple Choice

50. Which of the following equations has a graph that is narrower than the graph of $y = 2x^2 + 3$?
- A. $y = 2x^2 - 3$ B. $y = -3x^2 + 2$
 C. $y = 0.5x^2 + 3$ D. $y = -0.5x^2 - 2$
51. Which of the following equations has a graph that crosses the y-axis at a point lower than the graph of $y = -2x^2 - 1$?
- F. $y = -3x^2 - 1$ G. $y = 3x^2 - 3$
 H. $y = -3x^2 + 1$ I. $y = -3x^2 + 3$
52. The graph of $y = 4x^2 + 3$ does NOT pass through which of the following points?
- A. (0, 3) B. (1, 7) C. (-1, 7) D. (3, 27)

Mixed Review

Lesson 9-8

Factor each expression.

54. $x^3 - 4x^2 + 2x - 8$
 56. $7b^3 + 14b^2 + b + 2$
 58. $2n^3 - 2n^2 - 24n$

55. $15a^3 - 18a^2 - 10a + 12$

57. $y^3 + 3y^2 - 4y - 12$

59. $30m^3 + 51m^2 + 9m$

Lesson 9-2

Simplify each expression.

60. $5x(3x - 4)$

61. $(n - 7)9n$

62. $-2t^2(6t - 11)$

63. $4m^2(3m^4 - m^3 + 5)$

64. $-5y(3y^5 + 2y^3 - 4)$

65. $3c^3(-4c^2 + 7c - 8)$

66. **Business** The City Council invites your art club to sell helium balloons during a citywide celebration. The rental of the helium tank is \$27.00 for the day. Each balloon costs \$.20. If the balloons sell for \$2.00 each, how many will your art club have to sell to break even?