

C • Challenge

Solve for x in terms of a .

76. $2x^2 - ax = 6a^2$

77. $3x^2 + ax = a^2$

78. $2a^2x^2 - 8ax = -6$

79. $4a^2x^2 + 8ax + 3 = 0$

80. $3x^2 + ax^2 = 9x + 9a$

81. $6a^2x^2 - 11ax = 10$

82. Solve $x^2 = (6\sqrt{2})x + 7$ by completing the square.

Rewrite each equation in vertex form. Then find the vertex of the graph.

83. $y = -4x^2 - 5x + 3$

84. $y = \frac{1}{2}x^2 - 5x + 12$

85. $y = -\frac{1}{5}x^2 + \frac{4}{5}x + \frac{11}{5}$