Ax2 + Bx + C = 0

Finding the ROOTS, Solving for X = ZERO:

Just like you can solve Y = mx + b for a linear equation (y = b when x = 0)

You can find the ‘Y’ values when x = 0

What value of ‘x’ makes this true: x2 – 10x = -9

x2 – 10x + 9 = 0

(x – 9) (x – 1)

When x = 9 or x = 1, y will equal Zero.

In some problems you might not “See” the factors easily, so use the formula.

a = (1) b = (-10) c = (9)

= = = =

🡪 🡪 (x = 9 and 1)

KAHN ACADEMY:

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:quadratic-formula-a1/v/using-the-quadratic-formula>

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations>

PURPLE MATH: <https://www.purplemath.com/modules/quadform.htm>

MATH PLANET:

<https://www.mathplanet.com/education/algebra-1/quadratic-equations/the-quadratic-formula>

Solver Calculator: <https://www.mathsisfun.com/quadratic-equation-solver.html>

Varsity Tutors: <https://www.varsitytutors.com/hotmath/hotmath_help/topics/quadratic-function>

Virtual Nerd: <https://virtualnerd.com/act-math/algebra/solving-quadratic-equations/quadratic-formula-definition>