

Simple Quadratic Solver - Finding the Real Solutions

Step #1: Write your quadratic equation in standard form such that $ax^2 + bx + c = 0$

Step #2: Enter the coefficients in their corresponding places below.

a = 1

b = -4

c = -3

If the determinant = 0, there is one real solution (you will see it repeated twice)

If the determinant < 0, there are no real solutions (you will see an error such as #NUM!)

If the determinant > 0, there are two real solutions

Determinant: 28

Solutions: 4.646 -0.646

Step #3: Enter a range of x-values for which you would like to graph the equation.

Graph of quadratic: min = -10 max = 10

Vertex: (2 -7)

Step #4: Click on the graph and resize the x and y axes to match your desired viewing window.

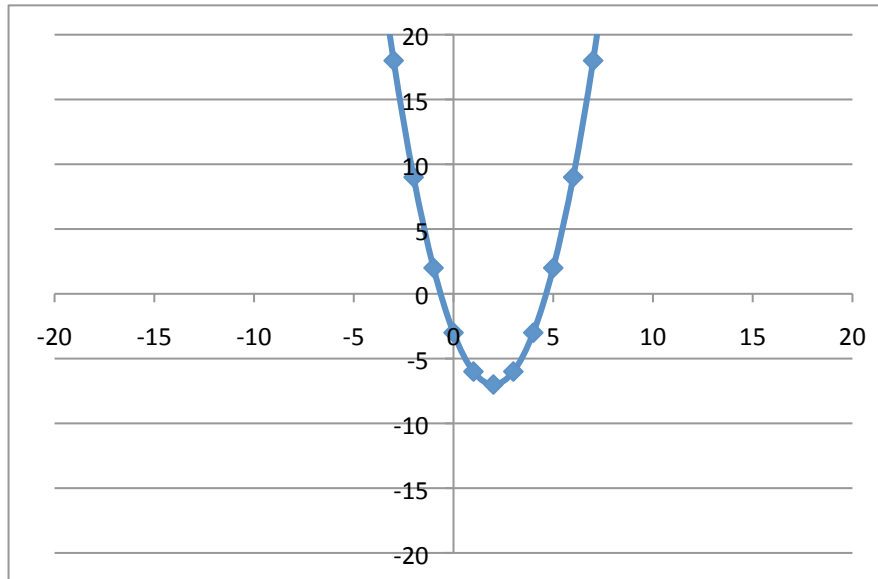


Table of values:

x	y
-10	137
-9	114
-8	93
-7	74
-6	57
-5	42
-4	29
-3	18
-2	9
-1	2
0	-3
1	-6
2	-7
3	-6
4	-3
5	2
6	9
7	18
8	29
9	42
10	57

Notes: This solver is for solving basic quadratic equations and it will only give you the values for the real solutions. If the solutions are irrational, you will get a decimal approximation. If the solutions are imaginary, you will see a number error in the solution field because your graph has no zeros (no x-intercepts).