

Solving Quadratic Equations by Graphing Using the TI-Nspire

1. Rearrange the equation so all the terms are on one side (set equal to zero).
2. Open a new document.
3. Add a graph.
4. Enter the equation in the f1(x)= input line. DO NOT type equals zero at the end.
5. Press Enter.
6. Menu → Analyze Graph → Zero
7. The screen will say “lower bound.”
8. Click just to the left of where the graph crosses the x-axis.
9. The screen will say “upper bound.”
10. Click just to the right of where the graph crosses the x-axis.
11. Your zero should be shown on the screen as a point.
12. Write down the x-coordinate of the point. This is one of your solutions.
13. Repeat steps 6-12 for the second zero, if necessary.

Let's Practice!

Solve $4x^2 + 4x = 3$ by graphing.

Solve $2x^2 + x - 28 = 0$ by graphing.

Solve $7x^2 - 243 = 0$ by graphing.

Solve $(x + 3)^2 = 9$ by graphing.

Solving Quadratic Equations by Graphing Using the TI-Nspire

1. Rearrange the equation so all the terms are on one side (set equal to zero).
2. Open a new document.
3. Add a graph.
4. Enter the equation in the f1(x)= input line. DO NOT type equals zero at the end.
5. Press Enter.
6. Menu → Analyze Graph → Zero
7. The screen will say “lower bound.”
8. Click just to the left of where the graph crosses the x-axis.
9. The screen will say “upper bound.”
10. Click just to the right of where the graph crosses the x-axis.
11. Your zero should be shown on the screen as a point.
12. Write down the x-coordinate of the point. This is one of your solutions.
13. Repeat steps 6-12 for the second zero, if necessary.

Let's Practice!

Solve $4x^2 + 4x = 3$ by graphing.

Solve $2x^2 + x - 28 = 0$ by graphing.

Solve $7x^2 - 243 = 0$ by graphing.

Solve $(x + 3)^2 = 9$ by graphing.