



Quadratic Functions and Graphs

Today's Standard

HSF.IF.C8a - Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.

Cues	Notes
What is factoring?	Factoring is breaking down a polynomial into simpler components.
What is completing the square?	Completing the square involves rewriting a quadratic in a perfect square form.
How to find zeros?	Zeros are the x-values where the function equals zero.
What are extreme values?	Extreme values are the maximum or minimum points on the graph.
What is symmetry in graphs?	Symmetry in graphs means one half is a mirror image of the other.

Summary

Understanding quadratic functions involves factoring and completing the square to find zeros, extreme values, and symmetry, which helps in interpreting and solving real-world problems.