Factoring Quadratic Expressions

Today's Standard

HSA.SSE.B3a - Factor a quadratic expression to reveal the zeros of the function it defines.

Cues	Notes
What is factoring?	Factoring is breaking down an expression into simpler components.
What are the zeros of a function?	The zeros of a function are the values of x that make the function equal to zero.
How do you factor a quadratic expression?	To factor a quadratic expression, look for two numbers that multiply to the constant term and add to the coefficient of the linear term.
What are common factoring techniques?	Common factoring techniques include factoring by grouping, using the quadratic formula, and completing the square.
What are common misconceptions about factoring?	Misconceptions include thinking all quadratics are easily factored and that zeros are always integers.

Summary

Factoring quadratic expressions reveals the zeros of the function. Mastery involves understanding various factoring techniques and addressing misconceptions.