8.01 Graphing Quadratic Functions

Topics	Space to practice & Video Links
Standard form of a quadratic equation A quadratic equation of the form y = ax*2 + bx + c, where each term is in decreasing order of degree. Leading Coefficient In a polynomial in terms of x, the coefficient in front of the x term with the highest degree of the polynomial The quadratic term, ax*2, where a is the leading coefficient is used to determine which direction the parabola will open or the end behavior of the graph. It is also used in combination with the linear term, bx, to determine the axis of symmetry and the vertex. The linear term, bx, is used to determine the axis of symmetry and the vertex. The constant, c, is used to determine the y-intercept. Example 9x*2 + 4x +17 9 is the leading coefficient 4x is the axis of symmetry and the vertex 17 is the y-intercept	8.01 Vocabulary 1:58
Finding Zeros by Factoring	8.01 Finding Zeros by Factoring 6:41
Zeros of a polynomial	Zero's
The values of the input of a polynomial function that would make the function zero; appear as the x-intercept on the graph of the polynomial Zero Product Property	x = -1 $f(x) = x^2 + 4x + 3$ f(-1) = f(-1) = 1 - 4 + 3
A property that says that zero times anything equals zero. If ab = 0, then either a or b (or both) has to be	f(-1) = 0

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