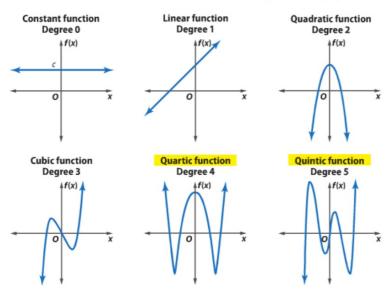
Algebra 2 5.3
Evaluate polynomial functions
Identify general shapes of polynomial function graphs

Quiz 5.1-5.2

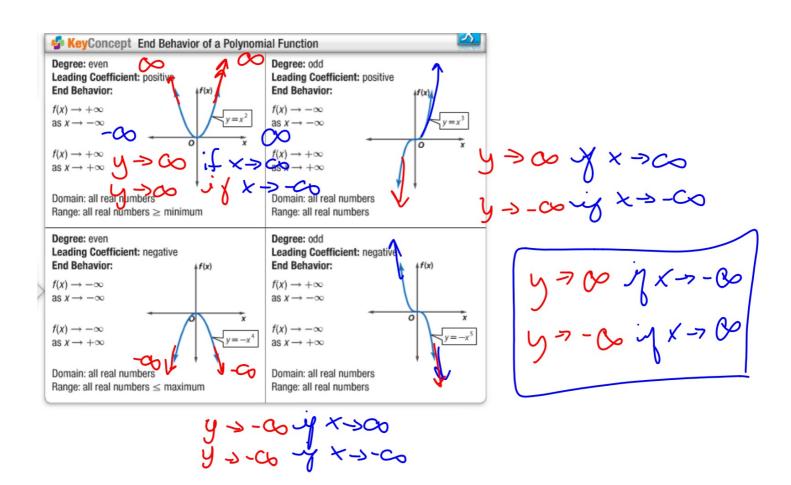
parent graph
degree
coefficient
leading coefficient
function notation
end behavior
even function
odd function

activity: graph matching

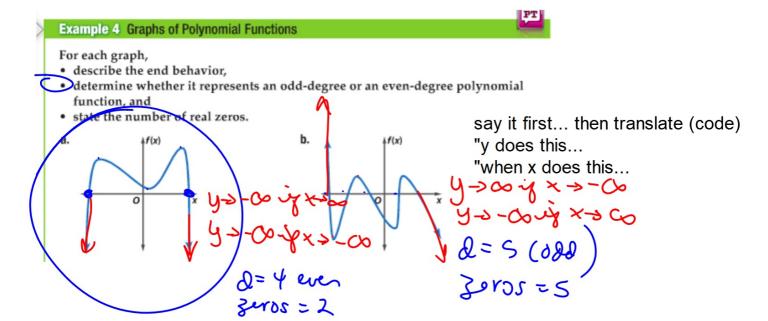
2 Graphs of Polynomial Functions The general shapes of the graphs of several polynomial functions show the *maximum* number of times the graph of each function may intersect the *x*-axis. This is the same number as the degree of the polynomial.



crossing points # max/min (turning points) end behavior



You have to know the code: y does this.... when x does this....

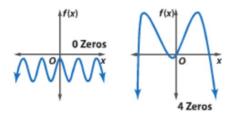




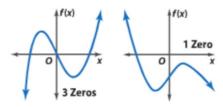
KeyConcept Zeros of Even- and Odd-Degree Functions

Odd-degree functions will always have an odd number of real zeros. Even-degree functions will always have an even number of real zeros or no real zeros at all.

Even-Degree Polynomials

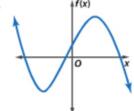


Odd-Degree Polynomials



• GuidedPractice

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4B.

