

Math Virtual Learning

Algebra 2A Polynomial Parent Functions

May 20, 2020



Lesson: Sketching Polynomial Parent Functions

Learning Target:

LT C2 I can identify key features (zeros, multiplicity, end behavior, y-intercept, local minimums and maximums, turning points, transformations).

Objective:

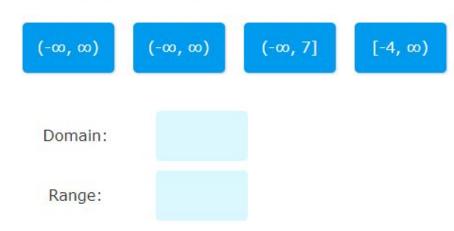
Students will be able to identify parts of a graph.

Warm Up

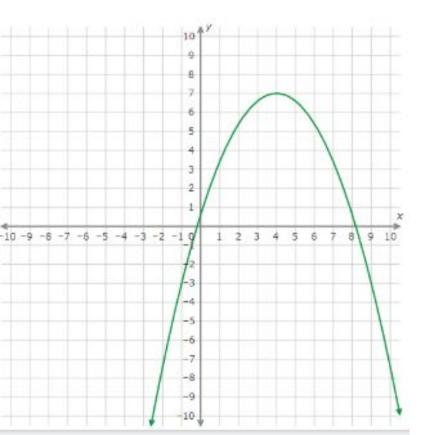
10 1 Y 9 8 7 6 5 4 3 2 1 X -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 2 3 4 5 6 9 10 1 7 8 -3 -4 -5 -6 -7 -8 -9 -10

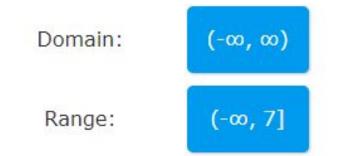
This is the graph of a polynomial function. The absolute maximum is shown on the graph.

Find the domain and range.



Warm Up Answer







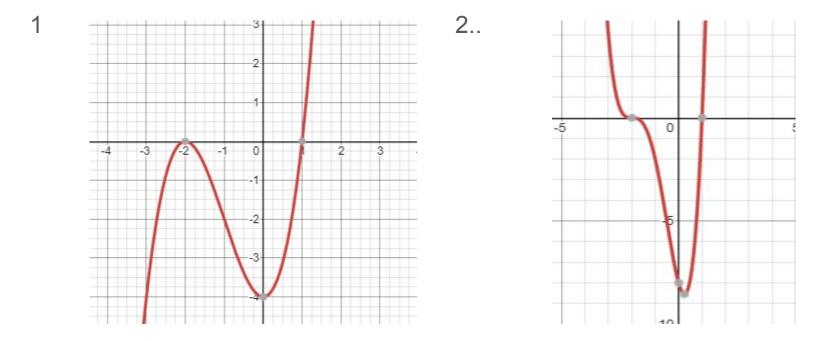
Today we are going to find multiplicity on a graph.

Find the Multiplicity and Zeros of a Polynomial when It is in Factored Form: <u>https://www.youtube.com/watch?v=Y6I0aZ5Cg84</u>

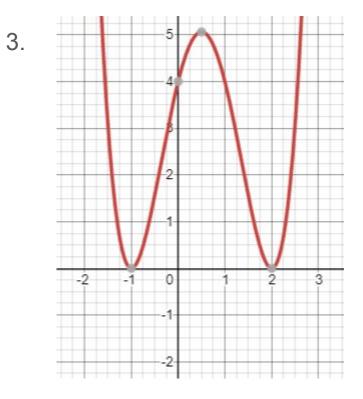
Multiplicity of zeros of polynomials | Polynomial graphs | Algebra 2 | Khan Academy: <u>https://www.youtube.com/watch?v=jrFLb9ZoZH0</u>

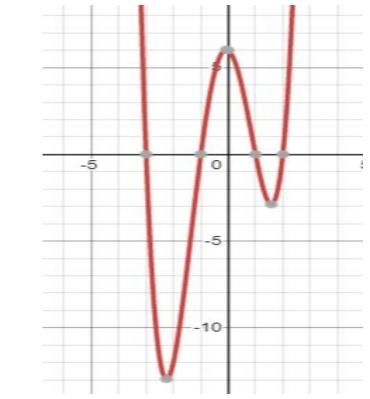
Practice

List the zeros and the multiplicity for each of the following graphs.



Practice Continued





4.

Answers to Practice Problems

1.			3.	zeros	multiplicity
	_zeros	multiplicity		-1	2
	-2	2		2	2
	1	1	4.	zeros	multiplicity
				-3	1
2.	zeros	multiplicity		-1	1
	-2	3		1	1
	1	1		2	1