

Math Virtual Learning

Algebra 2A Polynomial Parent Functions

May 7, 2020



Lesson: Sketching Polynomial Parent Functions

Learning Target:

LT C1 I can create a sketch of a polynomial function from an equation and create a polynomial equation from a graph.

Objective:

Students will be able to create an equations from a graph.

Warm Up

Please answer the brain teaser below.

Your parents have six sons including you and each son has one sister. How many people are in the family?



Warm Up Answer

Answer: Nine-two parents, six sons, and one daughter



For today's lesson, we will be writing an equation from a graph.

Watch the following video:

https://www.youtube.com/watch?v=zNMu3SxzmeU

https://www.youtube.com/watch?v=myVcjeZmyqg

Practice

Find the equation for these graphs:



More Practice

3

4 2 -2 -2 0 -4 2 -2 0 2 4 -2

4..

6

Solutions to Practice Problems

1.
$$y = (x + 3)^3 + 1$$

2. $y = -2(x - 3)^2 + 1$
3. $y = |x + 2| - 1$
4. $y = \sqrt{x - 1} + 2$

Additional Practice

https://cdn.kutasoftware.com/Worksheets/Precalc/01%20-%20Transformations%2 0of%20Graphs.pdf