Math 3 4.5 Fundamental Theorem of Algebra Unit 4

*SWBAT use the Fundamental Theorem of Algebra and end behavior to graph polynomials of nth degree.*

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| Fundamental Theorem of Algebra: An nth degree polynomial function has n roots. |

**Multiplicity:** This refers to the number of times the root is a zero of the function. We can have “repeated” zeros (think about double roots with quadratics).

**Example 1:** Determine the degree of each polynomial, the roots of the function (and multiplicity), and then sketch the polynomial based on the end behavior.

1. 



1. 



1. 
2. 
3. 
4. 





