Algebra 2

Unit 5.3 I Can Sheet – Graphing Polynomials

Standards: PR.2 Graph polynomials and identify features (intercepts, zeros, domain/range, end behavior, etc).
I can…

- Describe the end behavior of polynomial graphs
- Find the leading coefficient & degree
- Determine the number of turns in the graphs and the solutions
- Graph the generic shape (and know the names) of the different types of polynomial graphs

All items in bold should be turned in to me or placed in your binder.

_____video notes (2)

_____extra video

_____worksheet 1

_____worksheet 2 (odds)

_____worksheet 3

_____worksheet 4/5

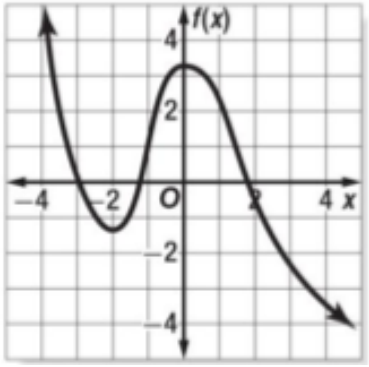
_____pre-mc

_____mastery check

Pre-mc:

Describe the end behavior, determine if its an odd or even degree, and then state the number of real zeros.

1.



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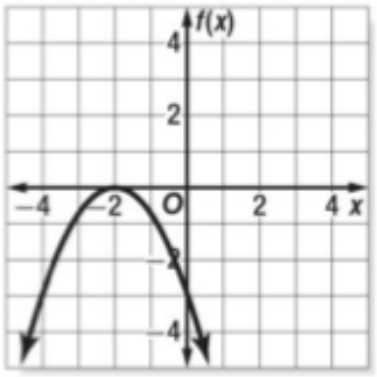
2.



Sketch the graph without using a calculator (separate graph paper).

3. $f(x) = (x + 1)(x - 2)(x - 4)$

4. $f(x) = -(x + 3)(x + 2)(x - 1)^2$

Graph the polynomial. Make a table for each graph (include the y-intercept).

5. $f(x) = \frac{1}{4}x^3 - 5x - 2$

6. $f(x) = -x^4 - 2x^3 + 5$