

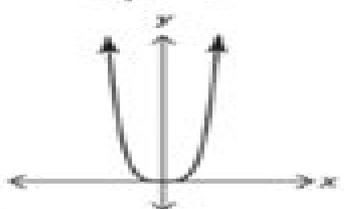
3.1 Graphing Polynomial Functions Practice

The **absolute maximum** is the highest point in the entire graph, and the **absolute minimum** is the lowest point in the entire graph. The set of absolute maximums, absolute minimums, relative maximums, and relative minimums may also be referred to as **extrema**.

1. Determine the number of extrema and label the extrema for each polynomial:

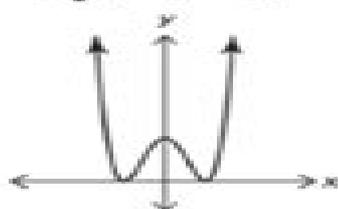
4th Degree Polynomials

$$g_1(x) = x^4$$

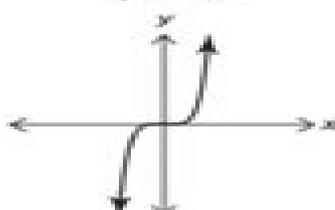


Number of Extrema: _____

$$g_2(x) = x^4 - 3x^2$$

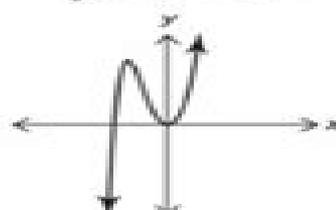
5th Degree Polynomials

$$f_1(x) = x^5$$

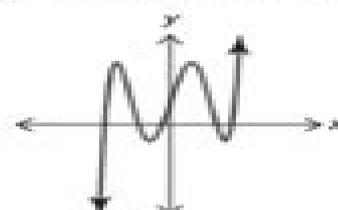


Number of Extrema: _____

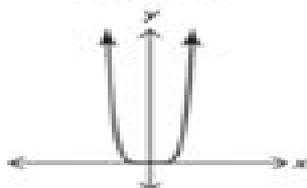
$$f_2(x) = x^5 + 4x^3$$



$$f_3(x) = x^5 - 5x^3 + 5x + 1.18$$

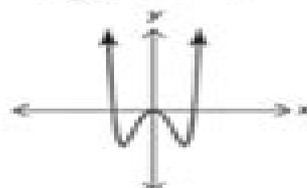
6th Degree Polynomials

$$h_1(x) = x^6$$

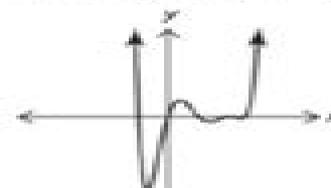


Number of Extrema: _____

$$h_2(x) = x^6 - 3x^2$$



$$h_3(x) = 2x^6 - 13x^4 + 26x^2 - 7x^0 - 2$$



Investigating Graphs Of Polynomial Functions Practice C

Mic B. Jackson, John R. Ramsay



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