

Exploration in Polynomials graphing

Given the polynomial:

$$P(x) = x^4 - 4x^3 + 2x^2 + 4x - 3$$

1. How many terms are there in $P(x)$?
2. What is the degree of the polynomial?
3. What is the sign of the leading coefficient?

You can already determine the end-behavior of the graph.

4. Divide the polynomial by $(x+1)$
5. Divide the polynomial by $(x-1)$
6. Divide the polynomial by $(x-1)$

Plot the polynomial based on the above results, and compare your result with graphic calculator.

