

Step 3: Write in standard form

Step 2: Write in factored form

Step 1: List the zeros with multiplicity

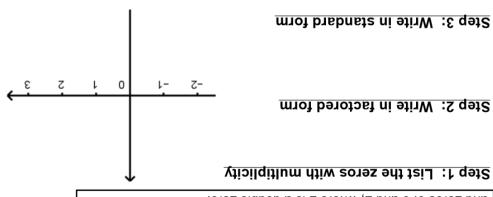
leading coefficient of 1, and zeros of -2, 5 and ±1. Write a polynomial of least degree that has a

standard form given real & imag. zeros Write the equation of the polynomial in

Example 3

Writing **Polynomial Equations**

Multiplicity: The number of times a factor of a polynomial is repeated; represented by an exponent >1 on the factor.



and zeros of 0 and 2, where 2 is a double zero. Write a polynomial of least degree that has a leading coefficient of 1,

standard form given real zeros Write the equation of the polynomial in

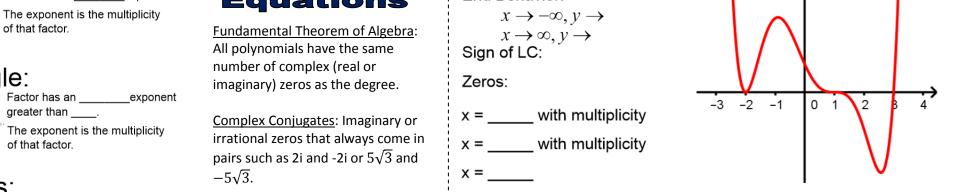
Example 2

Example 1 Write the equation in factored form given a graph

Write a polynomial equation of least degree in factored form.

End Behavior:

Equation:



Cross:

Bounce:

Wiggle:

Factor has an

of that factor.

greater than ____.

of that factor.



Factor has an exponent of _____. This is a linear factor; the exponent is implied but not written.