Polynomials

Evaluating Poly Functions

Zeros / Roots

All About

Graphing Poly Functions

End Behavior

Standard Form of a Polynomial:
_____
_____
_____

Polynomials are classified by:
Number of Terms:
_____
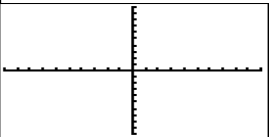_____
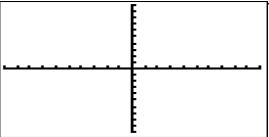_____

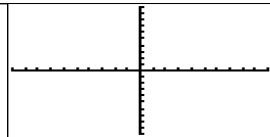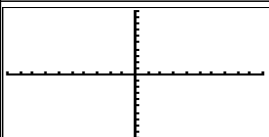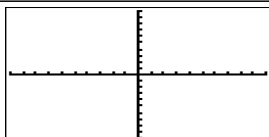Degree:
_____
_____

Leading Coefficient:
_____
_____

Example:
Find the sum and write in standard form:
$(x^2 - 5x^3 + 7) + (6x + x^3 - 3x^2)$

What is the degree? The leading coefficient?

Degree	Name of Polynomial	Example
N=0		
N=1		
N=2		
N=3		
N=4		
N=5		

Linear	Quadratic	Cubic
Quartic	Quintic	

Find f(-2) if $f(x) = x^2 + 5x - 7$

Find f(2a) if $f(x) = 2x^2 - 3x$

If $p(x) = 4x^2 - 3$, find $p(a^2)$

If $r(x) = 1 + 3x$, find $r(x + 2)$.

End behavior: _____
_____

Even degree:
If "a" is positive: If "a" is negative:

Odd degree:
If "a" is positive: If "a" is negative:

Real zeros:
_____
_____

Even degree:

Odd degree: