

**Advanced Precalculus
Intro to Polynomials**

Name: _____

Definitions:

Monomial:

Coefficient:

Degree of Monomial:

Polynomial:

Binomial:

Trinomial:

Standard form of a Polynomial:

Degree of a Polynomial:

Classifying Polynomials		
Degree	Name	Example
0		
1		
2		
3		
4		
5		

[EX 1] Classify the polynomials by the degree and number of terms.

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

$$g(x) = 7 - 3x^3$$

Zeros of a Polynomial:

Local Maximum:

Local Minimum:

Increasing Intervals:

Decreasing Intervals:

Turning Points:

End Behavior:

[EX 2] Using a calculator, graph $f(x) = x^3 - 7x^2 - 14x + 48$ and $g(x) = x^4 - 2x^2 + 1$.

Property	$f(x)$	$g(x)$
Zero(s):		
Local Maximum Points:		
Local Minimum Points:		
Increasing Intervals:		
Decreasing Intervals:		
# of Turning Points:		
End Behavior:		
Domain:		
Range:		