

Characteristics of Polynomials	
Degree	
Domain	
Range	
Number of Zeros	
X-Intercept	
Y-Intercept	
<i>Roots</i>	
<i>Multiplicity of Roots</i>	
<i>Type of Roots</i>	
Number of Turning Points	
Absolute Maximum	
Absolute Minimum	
Local/Relative Maximum	
Local/Relative Minimum	
End Behavior as x approaches infinity	
End Behavior as x approaches negative infinity	
Increasing Interval(s)	
Decreasing Intervals(s)	
Type of Polynomial	

1. $y = 12x^4 + 8x^3 - 9x^2 + 2$

2. $y = x^4 + x^3 - 2x^2 - x - 2$

3. $y = -2x^4 + 3x^3 + 2x^2 - x - 2$

4. $y = 5x^4 + 10x^3 + 3x^2 - 3x$

5. $y = 4x^3 + 6x^2 - 2$

6. $y = -8x^3 + 8x^2 + 1$

7. $y = \frac{1}{2}x^3 + x^2 - 5$