Math Analysis Honors – Unit 12

Analyzing Polynomials Worksheet

Provide all required information and sketch an accurate graph on graph paper without using the graphing calculator.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Type of function |  |  |  |  |
| Total number of roots/  Number of real roots |  |  |  |  |
| y-intercept |  |  |  |  |
| x-intercepts (zeros) |  |  |  |  |
| Multiplicity of zeros? |  |  |  |  |
| Local (relative)  Min/Max |  |  |  |  |
| Absolute Min/Max |  |  |  |  |
| Inflection Point(s) |  |  |  |  |
| Interval where graph  is concave up |  |  |  |  |
| Interval where graph  is concave down |  |  |  |  |
| End behavior |  |  |  |  |
| Location and Type of  Discontinuity |  |  |  |  |
| Domain |  |  |  |  |
| Range |  |  |  |  |