Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mr. Schlansky Algebra II

***Sketching Polynomial Functions***

1.  2. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):



End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Intervals where function is positive: Intervals where function is positive:

Intervals where function is negative: Intervals where function is negative:

Local extrema: Local extrema:

3.  4. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):



End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Intervals where function is positive: Intervals where function is positive:

Intervals where function is negative: Intervals where function is negative:

Local extrema: Local extrema:

5.  6. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):



End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Intervals where function is positive: Intervals where function is positive:

Intervals where function is negative: Intervals where function is negative:

Local extrema: Local extrema:

7.  8. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):





End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Local extrema: Local extrema:

9.  10. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):





End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Local extrema: Local extrema:

11.  12. 

Degree: Degree:

y-intercept: y-intercept:

x-intercepts (zeros): x-intercepts (zeros):





End Behavior: End Behavior:

  

Intervals where function is increasing: Intervals where function is increasing:

Intervals where function is decreasing: Intervals where function is decreasing:

Local extrema: Local extrema: