# Mat 110 Quiz 4 Review Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Sketch the graph of and then answer the questions below.
   1. Number of local extrema \_\_\_\_\_\_\_\_\_\_\_\_\_\_, -intercepts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ -intercepts \_\_\_\_\_\_\_\_\_\_\_
   2. Leading Coefficient of is \_\_\_\_\_\_\_\_\_\_ and degree of \_\_\_\_\_\_\_\_\_\_\_\_
   3. End Behavior of is like \_\_\_\_\_\_\_\_ function.
   4. Intervals where are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Given the graph of the function determine a rough sketch of the function . Show all your asymptotes clearly (use colored pens). Explain clearly your logic.

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1. Sketch the graph of the following the functions below and fill in the blanks.

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| 1. ,   Asymptotes are \_\_\_\_\_\_\_\_\_\_  -intercepts \_\_\_\_\_\_ -intercept \_\_\_\_\_\_\_\_\_ | Asymptotes are \_\_\_\_\_\_\_\_\_\_  -intercepts \_\_\_\_\_\_ -intercept \_\_\_\_\_\_\_\_\_ |

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| Asymptotes are :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ -intercpets \_\_\_\_\_\_\_\_ -intercept \_\_\_\_\_  Points of intersection with the asymptotes are \_\_\_\_\_\_\_\_\_\_\_  Intervals where are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |