

Vertical Asymptotes	Only appear if original function has x in the denominator. Set the denominator = 0 and solve for "VA"s.
Horizontal Asymptotes	Only appear if original function has x in the denominator. Use the "limit as x approaches infinity" rules. If you can't remember, check the website for these notes.
Point(s) of Non-Differentiability) POND	Occurs if original function does not have denominator, but denominator appears in 1 st or 2 nd derivative. Set the denominator = 0 and solve for POND. All PONDs must be included when testing zones, because PONDs can affect the behavior of the graph.
Turning Points	Occur when graph changes direction. Find turning point by looking at sign changes in 1 st derivative test. + to - or - to +, etc
Point(s) of Inflection	Occur when graph changes concavity (curvature). Find POI by looking at sign changes in 2 nd derivative test. + to - or - to +, etc