**Analyzing Rational Functions Worksheet**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| Type of function |  |  |  |
| y-intercept |  |  |  |
| x-intercept(s) |  |  |  |
| Vertical Asymptote(s) |  |  |  |
| Horizontal Asymptote |  |  |  |
| Hole(s) |  |  |  |
| End behavior |  |  |  |
| Locations and Type of  Discontinuity |  |  |  |
| Domain |  |  |  |
| Range |  |  |  |
| Interval where graph  is increasing |  |  |  |
| Interval where graph  is decreasing |  |  |  |
| Graph – on graph  paper |  |  |  |