**Unit 4 Day 11 – Key Features of Rational Graphs Cut and Paste Name:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Equation** | **Vertical Asymptote (**$x=$**)** | **Hole**$$(x,y)$$ | **Horizontal Asymptote (**$y=$**)** | **Domain** | **Range** |
| 1. $\frac{x+4}{-2x-6}$
 |  |  |  |  |  |
| 1. $\frac{x^{3}-9x}{3x^{2}-6x-9}$
 |  |  |  |  |  |
| 1. $\frac{2x^{2}+10x+12}{x^{2}+7x+12}$
 |  |  |  |  |  |
| 1. $\frac{x^{2}+x-2}{x^{2}-4}$
 |  |  |  |  |  |
| 1. $\frac{-3x+3}{x^{2}+x-2}$
 |  |  |  |  |  |
| 1. $\frac{-x^{2}+x+12}{-2x-6}$
 |  |  |  |  |  |