|  |  |
| --- | --- |
| 1. Label each piece* Vertical Asymptotes:

 $\lim\_{x\to c^{+}}f\left(x\right) or \lim\_{x\to c^{-}}f\left(x\right) or\lim\_{x\to c}f\left(x\right)=\pm \infty $* Horizontal Asymptotes: $\lim\_{x\to \pm \infty }f\left(x\right)=L $
* Open Circles: $\lim\_{x\to c}f\left(x\right)=L $
* Closed Circles: $f\left(x\right)=y$

2. Graph VA, HA, Open, & Closed Circles3. Graph behavior at VA & Open Circles4. Graph end behavior | 1. Label each piece* Vertical Asymptotes:

 $\lim\_{x\to c^{+}}f\left(x\right) or \lim\_{x\to c^{-}}f\left(x\right) or\lim\_{x\to c}f\left(x\right)=\pm \infty $* Horizontal Asymptotes: $\lim\_{x\to \pm \infty }f\left(x\right)=L $
* Open Circles: $\lim\_{x\to c}f\left(x\right)=L $
* Closed Circles: $f\left(x\right)=y$

2. Graph VA, HA, Open, & Closed Circles3. Graph behavior at VA & Open Circles4. Graph end behavior |
| Sketch the graph of a function with the following Limits:    |  | [image] |