

| Questions: | Notes: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Parent Function | Graph | Parent Function | Graph |
|  | $y=x$ <br> Domain: <br> Range: $\begin{aligned} & \text { End Behavior: } \\ & x \rightarrow-\infty, y \rightarrow \\ & x \rightarrow \infty, y \rightarrow \end{aligned}$ |  | $\boldsymbol{y}=\|\boldsymbol{x}\|$ $\substack { \text { Domain: } \\ \text { Range: } \\ \begin{subarray}{c}{\text { End Behavior: } \\ x \rightarrow-\infty, y \rightarrow \\ x \rightarrow \infty, y \rightarrow{ \text { Domain: } \\ \text { Range: } \\ \begin{subarray} { c } { \text { End Behavior: } \\ x \rightarrow - \infty , y \rightarrow \\ x \rightarrow \infty , y \rightarrow } } \\{y} \end{subarray}$ |  |
|  | $\quad y=\boldsymbol{x}^{2}$$\quad$,Domain: <br> Range:End Behavior: <br> $x \rightarrow-\infty, y \rightarrow$ <br> $x \rightarrow \infty, y$ <br> $y \rightarrow 0$ |  | $y=\sqrt{x}$ <br> Domain: <br> Range: <br> End Behavior: <br> $x \rightarrow \infty, y \rightarrow$ |  |
|  | $\quad y=x^{3}$$\quad$,Domain:Range:End Behavior: <br> $x \rightarrow-\infty, y \rightarrow$ <br> $x \rightarrow \infty, y \rightarrow$ |  |  |  |
|  | $y=b^{x}, b>1$ <br> Domain: <br> Range: <br> End Behavior: $x \rightarrow-\infty, y \rightarrow$ $x \rightarrow \infty, \quad y \rightarrow$ |  | $y=\log _{b}(x), \quad b>1$ <br> Domain: <br> Range: <br> End Behavior: <br> $x \rightarrow 0^{+}, y \rightarrow$ <br> $x \rightarrow \infty, y \rightarrow$ |  |
|  | $y=\frac{1}{x}$ <br> Domain: <br> Range: <br> End Behavior: <br> $x \rightarrow-\infty, y \rightarrow$ <br> $x \rightarrow \infty, y \rightarrow$ |  | $y=\frac{1}{x^{2}}$ <br> Domain: Range: <br> End Behavior: $x \rightarrow-\infty, y \rightarrow$ $x \rightarrow \infty, \quad y \rightarrow$ |  |
|  |  |  | ( $\boldsymbol{y}=\mathbf{2}$ in the graph) <br> Domain: <br> Range: <br> End Behavior: $x \rightarrow-\infty, y \rightarrow$ $x \rightarrow \infty, y \rightarrow$ |  |
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