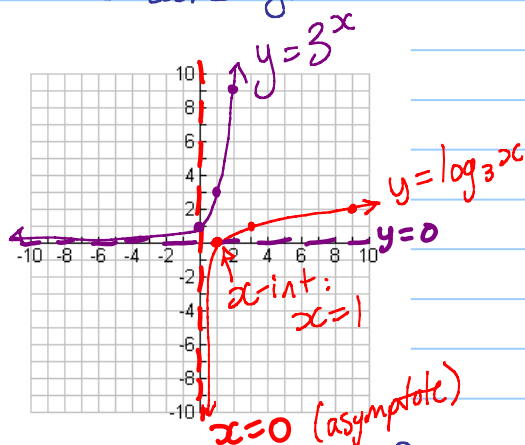


5.4 (cont.) Graphs of Log Functions

Note Title

26/10/2012

Draw $y = 3^x$ and $y = \log_3 x$ on the same grid.



Domain & Range of

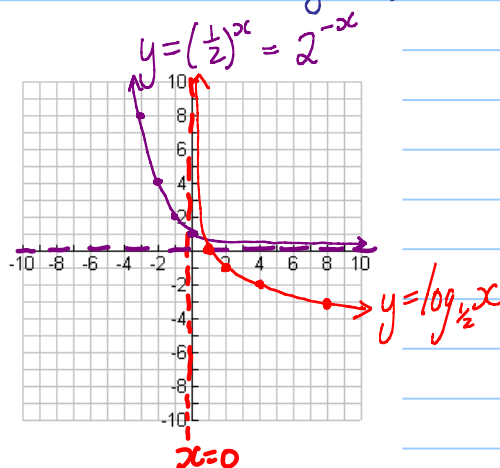
$$y = 3^x$$

D: $x \in \mathbb{R}$
R: $y > 0$

$$y = \log_3 x$$

D: $x > 0$
R: $y \in \mathbb{R}$

Draw $y = (\frac{1}{2})^x$ and $y = \log_{\frac{1}{2}} x$ on the same grid.



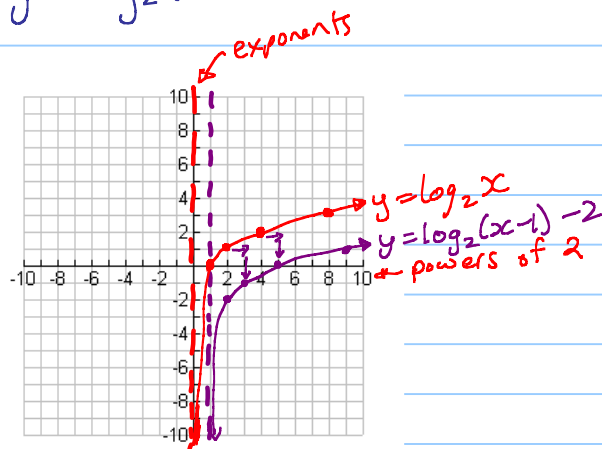
$$y = (\frac{1}{2})^x$$

D: $x \in \mathbb{R}$
R: $y > 0$

$$y = \log_{\frac{1}{2}} x$$

D: $x > 0$
R: $y \in \mathbb{R}$

Draw the graph of $y = \log_2 x$ and $y = \log_2(x-1) - 2$ on the same grid.



$$D: x > 1$$

$$R: y \in \mathbb{R}$$

$$\sqrt{x-1}$$

$$D: x-1 \geq 0$$

$$\Rightarrow x \geq 1$$

$$\log(\underline{x-1})$$

$$D: x-1 > 0$$

$$x > 1$$