

$$y = \frac{1}{\sqrt{x}}$$

$$\textcolor{red}{\log_2}(y) = \textcolor{red}{\log_2} \frac{1}{\sqrt{x}}$$

$$\log_2(y) = -\frac{1}{2} \log_2(x)$$

$$y = 2^{-\frac{1}{2} \log_2(x)}$$