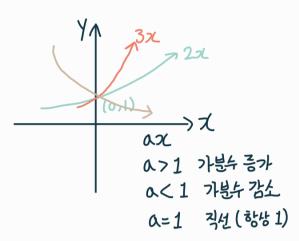


$$y=f(x)$$
 $y=2^{x}$ $y=3^{x}$



2°=1, 3°=1은 생각하면 무조건 Y의 1지점을 지남 $2^2 < 2^3$ 이니까 $Y = (<math>\frac{1}{2})^2$ 은 X가 귀괄(즉 Y가 각하임. 기울기도 강소. <u>9</u> 10→진분수→ 크면 감소(애이 1분나 객으면 감소)

$$(17)^{7} = 1 = \sqrt{1}$$

$$5(3^5 = (3^{\frac{1}{5}})^5 = 3$$

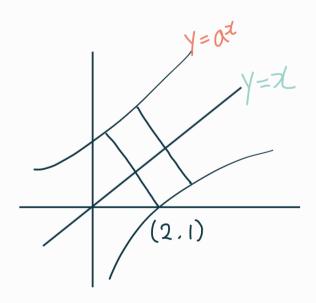
$$\sqrt[2]{\frac{2}{2}} = \sqrt{2} \Rightarrow (\sqrt[2]{2})^2 = \sqrt{2}$$

$$\int_{0}^{\infty} 2 = \int_{0}^{\infty} 2 =$$

$$\sqrt[\eta]{1} = 1^{\frac{1}{\eta}}$$

$$\frac{(1^{\frac{1}{7}})^{7}-1}{\sqrt[3]{1}}$$

$$\Rightarrow a^{\alpha} = b$$



10g K는 이유: 2가 커丛传 기하락적으로 커짐. 메오리 용양은 죽인수 있을.

$$\log^{2} + \log^{4} = \log^{2}$$

 $\log^{10} = 1 = \log_{10}^{10} = 1$
 $\log_{a}^{b} = 0$, $b = 0$
 $\log_{100-100}^{b} = 0$

$$\log_{10}^{e'} = 1$$
 $\log_{10}^{1000} = \log_{10}^{100} = \frac{3\log^{10}}{1}$

$$log^{\frac{b}{a}} = ? = log(b \times \frac{1}{a}) = log^{\frac{b}{a}} + log^{\frac{1}{a}}$$

$$= log^{\frac{b}{a}} + log^{\frac{a}{a}}$$

$$= log^{\frac{b}{a}} - log^{\frac{a}{a}}$$

$$\log_{8}^{16} = \frac{\log_{2}^{16}}{\log_{2}^{8}} = \frac{\log_{2}^{22}}{\log_{2}^{22}} = \frac{4}{3}$$

$$\log^2 = 0.3$$
 $\log^3 = 0.4$

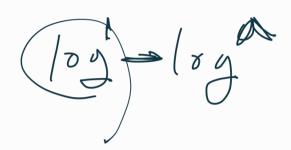
1
$$\log_{2}^{9} = \frac{\log_{2}^{9}}{\log_{2}^{2}} = \frac{0.4 \times 2}{0.3}$$
2 $\log_{8}^{4} = \frac{\log_{2}^{4}}{\log_{2}^{8}} = \frac{\log_{2}^{2}}{\log_{2}^{2}} = \frac{2}{3}$

(3)
$$\log_{16}^{4} = \frac{2^{2}}{2!} = \frac{1}{2}$$

$$\bigoplus \log_9^9 = \frac{\log_2^3}{\log_3^2} = \frac{0.3\times3}{0.4\times2}$$

$$\log_2^9 = \frac{\log_9^9}{\log_2^2} = \frac{0.4 \times 2}{0.3}$$

$$\log^{\frac{1}{\alpha}} = \log^{\alpha^{-1}}$$



$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$2^{4} = 6$$

$$2^{-2} = \frac{1}{4}$$