



(위) (왼쪽) 오른쪽)

(위 아래) (왼쪽 오른쪽)

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(위 아래) (왼쪽 오른쪽)

$$y = -\log_2(-x)$$

A hand-drawn graph of a function on a Cartesian coordinate system. The curve passes through the origin (0,0) and has a vertical asymptote at $x = -1$. The curve is concave up for $x < -1$ and concave down for $x > -1$. The x-axis is labeled with -1.

 $\gamma(=0)$ $\lambda = 0$ $x=0$

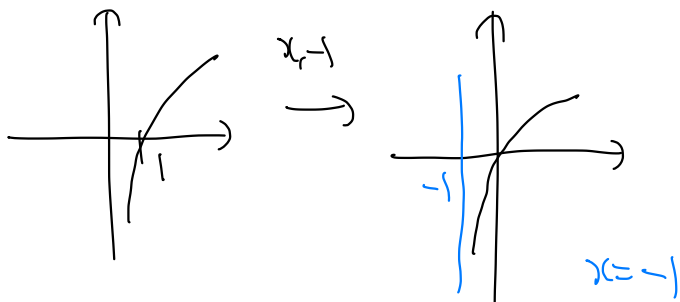
A hand-drawn graph of the function $f(x) = \frac{1}{x-1}$ for $x < 1$. The graph is a curve in the second quadrant of a coordinate system, approaching the vertical asymptote $x=1$ and the horizontal asymptote $y=0$. The x-axis is labeled with $\frac{1}{3}$.

 $x=0$ $x = 0$

[7~10] 다음 로그함수의 그래프를 그리고, 점근선의 방정식을 쓰시오.

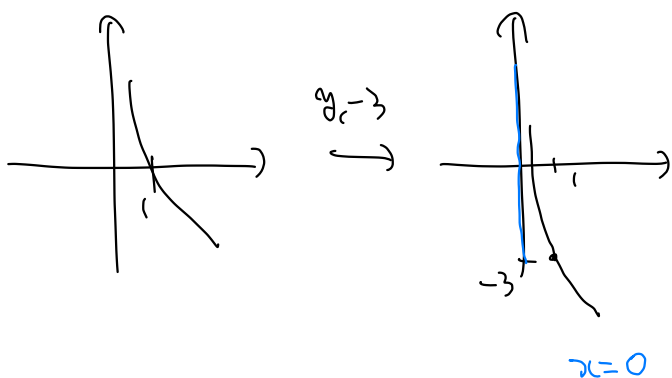
문제 7. $y = \log_2(x+1)$

$$y = \log_2 x$$



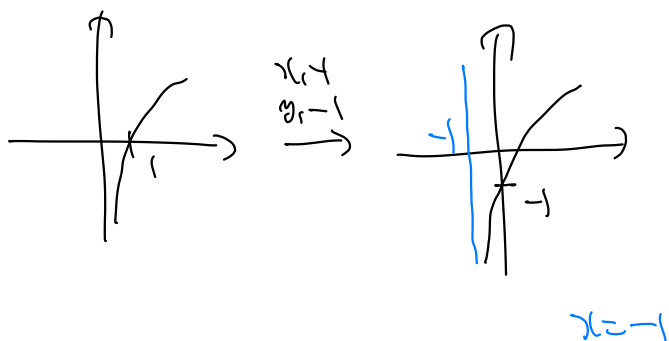
문제 8. $y = -\log_2 x - 3$

$$y = -\log_2 x$$



문제 9. $y = \log_2(x+1) - 1$

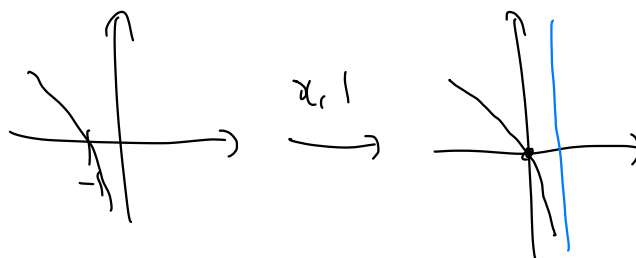
$$y = \log_2 x$$



$$\log_2(-x+1)$$

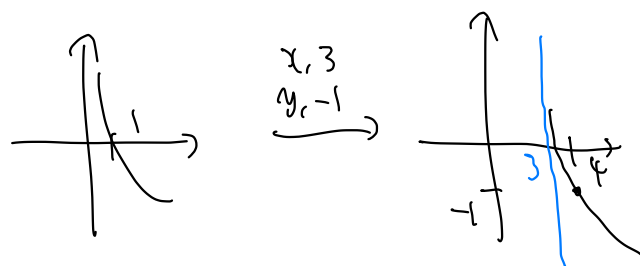
문제 10. $y = \log_2(-x+1)$

$$y = \log_2(-x)$$



문제 11. $y = \log_{\frac{1}{3}}(x-3) - 1 = -\log_3(x-3) - 1$

$$y = -\log_3 x$$



문제 12. $y = 3 \frac{\log_2 x}{\log_2 3} - 5 = 3 \log_3 x - 5$

$$y = 3 \log_3 x$$

