

B \log_c

10

\log_c

$$1 \cdot \log_c^{-1} a = b \Rightarrow c = -\frac{r}{r} a = b \Rightarrow \frac{1}{r} = -\frac{r}{r} a + r \Rightarrow a = 1 \quad (r) \quad (1)$$

$$\log_c^{-1} b = -1 \Rightarrow -b = \frac{1}{c} \quad b + c = -\frac{r}{r} \Rightarrow b + \frac{1}{r} = -\frac{r}{r} \Rightarrow b = -\frac{r}{r} \quad (r)$$

$$\left(1 + \frac{1}{r}\right) \cdot \frac{1}{r} = -\frac{r}{r} \quad (r)$$

$$-\frac{1}{c} + c = -\frac{r}{r} \Rightarrow c^r + \frac{r}{r} c - 1 = 0$$

$$\begin{matrix} (-r) & \left(\frac{1}{r}\right) \\ \text{GGÉ} & \end{matrix} \quad (r)$$

$$1 + c \cdot r^a = 0 \Rightarrow c \cdot r^a = -1 \Rightarrow \underbrace{c \cdot r^a \cdot r^b}_{-\frac{1}{r}} = -1 \Rightarrow r^b = r \quad (r) \quad (r)$$

$$1 + c \cdot r^a = \frac{r}{r} \Rightarrow c \cdot r^a = -\frac{1}{r} \quad (b=1) \quad (r)$$

$$1 + \underbrace{c \cdot r^a}_{-\frac{1}{r}} \cdot r^{-1} = 1 - \frac{1}{r} = \frac{r-1}{r} \quad (r)$$

$$c + \log_a^{-1} r = 0 \Rightarrow a^{-c} = r \cdot r^a \Rightarrow \frac{1}{a^c} = r \cdot r^a \quad (r) \quad (r)$$

$$c + \log_a^{-1} b = r \Rightarrow a^{-c} = b \Rightarrow \frac{a^r}{a^c} = b \Rightarrow \left(a = \frac{r \cdot a}{b} \right)$$

$$\frac{b - r \cdot a}{r \cdot a} = r \cdot r^a \quad \leftarrow \frac{b}{r \cdot a} = r \cdot r^a$$

$$\frac{r \cdot b}{r \cdot a} = r \cdot r^a \Rightarrow \frac{-r \cdot b}{a} = a \Rightarrow \frac{a}{b} = \frac{-r}{a} \quad (r)$$

$$\log_f^{-1} (|x^r - r| - a) \quad |x^r - r| - a > 0 \quad (r)$$

$x^r - r - a > 0$	$r - x^r - a > 0$	$x^r - r - a < 0$
$x > r + \sqrt{r+a}$	$x < r - \sqrt{r+a}$	$x < r - \sqrt{r-a}$

$D_f = (-\infty, r) \cup (r + \sqrt{r+a}, \infty)$ \checkmark

$$f(x) = x^b + x^c$$

$$g(x) = -x^b - x^c + \lambda$$

$$\Rightarrow x^b + x^c = f$$

$$x^{b-a} = x \Rightarrow b-a=1$$

$$f(-1) = 1 \Rightarrow x^b + x^c = 1 \quad x^{b+a} = \lambda$$

$$b+a=1$$

$$b-a=1$$

$$x^b = x^c$$

$$b=c$$

$$a=1$$

$$b-1 = x \quad \checkmark$$

(a)

(r)

$$f(x) = -x^A + \left(\frac{1}{x}\right)^{A+B}$$

$$y = x^{A-2}$$

$$-x + \left(\frac{1}{x}\right)^{A+B} = 0 \Rightarrow \left(\frac{1}{x}\right)^{A+B} = x \Rightarrow A+B = -1$$

$$-x + \left(\frac{1}{x}\right)^{A+B} = y \Rightarrow \left(\frac{1}{x}\right)^{A+B} = y + x$$

$$xA + B = -y$$

$$A = -1 \quad B = 0 \quad \checkmark$$

$$f(x) = -x + \left(\frac{1}{x}\right)^{-1} = y \quad \checkmark$$

(y)

(r)

$$f(x) = A x \left(\frac{\lambda}{x}\right)^t = \frac{1}{x} A$$

$$\log_x \lambda = \frac{1}{1/f} = \frac{a}{x} \quad \log_x \lambda = \frac{1}{x/f} = \frac{a}{x}$$

$$\log_x \left(\frac{\lambda}{x}\right)^t = t \cdot \log_x \left(\frac{\lambda}{x}\right)$$

$$t \log_x \left(\frac{\lambda}{x}\right) = -\log_x \frac{y}{a}$$

$$t(1 \cdot \log_x \lambda - \log_x x) = -(\log_x \lambda + \log_x x)$$

$$t(\log_x \lambda - \log_x x) = -(\log_x \lambda + \log_x x)$$

$$t\left(\log_x \frac{\lambda}{x} - \log_x \frac{x}{x}\right) = -\left(\log_x \frac{\lambda}{x} + \log_x \frac{x}{x}\right)$$

$$t\left(\frac{\log \lambda}{x} - \frac{1}{x}\right) = -\left(\frac{\log \lambda}{x} + \frac{1}{x}\right) = t\left(\frac{\log \lambda - 1}{x}\right) = -\left(\frac{\log \lambda + 1}{x}\right)$$

$$\frac{19}{x} \cdot y = x^{\lambda \cdot \min} \quad \checkmark$$

$$t = \frac{19}{x} \quad \checkmark$$

(r)

$$f(x) = A \left(\frac{x}{\lambda}\right)^t = \frac{1}{x} A$$

$$\log_x \left(\frac{x}{\lambda}\right)^t = t \log_x \left(\frac{x}{\lambda}\right)$$

$$\log_x \frac{y}{\lambda} = \frac{1}{0.9} = \frac{a}{x}$$

$$t(1 \cdot \log_x x - \log_x \lambda) = -(\log_x \frac{y}{\lambda})$$

$$\log_x \frac{y}{\lambda} = \frac{1}{1.9} = \frac{a}{\lambda}$$

$$t\left(\frac{a}{x} - \frac{1}{\lambda}\right) = -\left(\frac{a}{\lambda}\right)$$

$$t\left(\frac{a}{x} - \frac{1}{\lambda}\right) = \frac{a}{\lambda}$$

$$\frac{t}{\lambda} = 1$$

$$t = \lambda \quad \checkmark$$

$$\lambda \cdot x = a \cdot y \quad \checkmark$$

(1)

(r)

$$\left(\frac{r_f}{r_0}\right)^n = \frac{1}{r} \Rightarrow n \log\left(\frac{r_f}{r_0}\right) = \log\left(\frac{1}{r}\right)$$

$$n(1.9^{r_f} - 1.9^{r_0}) = -(1.9^r)$$

$$n(r \cdot 1.9^r + 1.9^r - r \cdot 1.9^0) = -(0.9^n)$$

$$n(0.9 + 0.9^n - 1.9) = -(0.9^n)$$

$$(r \cdot 0.9 + 0.9^n)n = f(0.9^n)$$

$$n = r f \quad \checkmark$$

$$1.9^r = 1.9^n = 1.9^0$$

$$1 - 0.9^r = 0.1 \checkmark$$

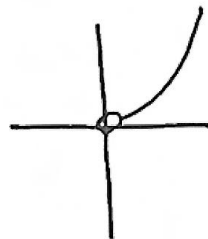
$$1.9^0 = 0.1 \checkmark$$

(9)

(7)

$$y = 9^{1.9^x} = a^{1.9^x} = a^x$$

a)



(1.)

(7)

$$y = \log a^x = x \log |a|$$

