

$$x=0 \Rightarrow 1 - \log_c^{-b} = 4 \Rightarrow \log_c^{-b} = -1 \Rightarrow \frac{1}{c} = -b \Rightarrow -\frac{1}{c} + c = \frac{4}{c} \Rightarrow c^2 + \frac{4}{c}c - 1 = 0$$

$$x = -1, 0 \Rightarrow 1 - \log_{\frac{1}{4}}^{-\frac{4}{3}a+4} = 0 \Rightarrow \log_{\frac{1}{4}}^{-\frac{4}{3}a+4} = 1 \Rightarrow 4 - \frac{4}{3}a = \frac{1}{4} \Rightarrow a = 1$$

$$(a+c)b = (1+\frac{1}{4})(-4) = -\frac{5}{4} \times 4 = -5$$

$$f(1) = 1 + c \times 4^{a+b} = 0 \Rightarrow c \times 4^{a+b} = -1$$

$$f(0) = 1 + c \times 4^a = \frac{4}{3} \Rightarrow c \times 4^a = \frac{1}{3}$$

$$f(-1) = 1 + c \times 4^{a-b} = 1 - \frac{1}{4} = \frac{3}{4}$$

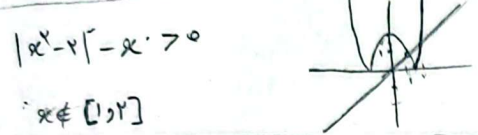
$$\Rightarrow 4^b = 3 \Rightarrow b = 1 \Rightarrow c \times 4^{a-b} = \frac{1}{4}$$

$$f(x) = c + \log_a^{4x+a+b} = 0$$

$$f(0) = c + \log_a b = 4$$

$$\Rightarrow \log_a \frac{b}{4x+a+b} = 4 \Rightarrow \frac{b}{4x+a+b} = a^4 \Rightarrow b = 4a^4 + 4a^3$$

$$-4ab = 4a^3 \Rightarrow \frac{a}{b} = \frac{-4a^3}{4a^3} = -1$$



$$D_f = (-\infty, -1) \cup (1, +\infty)$$

$$x=1 \Rightarrow -1 - 4 + 4 = 1 + 4^{b-a} \Rightarrow 4 = 4^{b-a} \Rightarrow b-a=1$$

$$f(-1) = 10 \Rightarrow 4 + 4^{b+a} = 10 \Rightarrow 4^{b+a} = 6 \Rightarrow b+a=2$$

$$\Rightarrow b=2, a=1 \quad 4^{b-a} = 4^{-1} = \frac{1}{4}$$

$$x=1 \Rightarrow 4^x - 1 = -4 + (\frac{1}{4})^{A+B} \Rightarrow (\frac{1}{4})^{A+B} = 7 \Rightarrow A+B = -1$$

$$x=x \Rightarrow 4^x - 4 = -4 + (\frac{1}{4})^{xA+B} \Rightarrow (\frac{1}{4})^{xA+B} = 4 \Rightarrow xA+B = -2$$

$$f(4) = -4 + (\frac{1}{4})^{4A+B} = -4 + (\frac{1}{4})^{-4} = -4 + 16 = 12$$

$$a \cdot (\frac{1}{4})^t = \frac{a}{4} \Rightarrow 4 = (\frac{a}{4})^t \Rightarrow 1 = t \log_4 \frac{a}{4} \Rightarrow \frac{1}{t} = \frac{\log_4 a}{\log_4 4} = \frac{\log_4 a}{1} = \log_4 a$$

$$\frac{\frac{1}{1/4} - \frac{1}{1/4}}{\frac{1}{1/4} + \frac{1}{1/4}} = \frac{4 - 4}{4 + 4} = \frac{0}{8} = 0$$

$$\Rightarrow t = \frac{19}{4} \times 14 = 66.25$$

$$a \cdot (\frac{1}{4})^{vt} = \frac{a}{4} \Rightarrow v = (\frac{1}{4})^{vt} \Rightarrow 1 = vt \log_4 \frac{1}{4} \Rightarrow \frac{1}{vt} = \log_4 \frac{1}{4} = -1 \Rightarrow \frac{1}{v} = -t$$

$$\log_4 \frac{1}{4} = \frac{1 \log_4 1}{\log_4 4} = \frac{0}{1} = 0$$

$$vt = 1 \Rightarrow t = \frac{1}{v}$$

$$a \cdot (\frac{94}{100})^d = \frac{a}{4} \Rightarrow 4 = (\frac{94}{100})^d \Rightarrow 1 = d \log_{\frac{94}{100}} \frac{4}{1} \Rightarrow \frac{1}{d} = \log_{\frac{94}{100}} 4 = \frac{\log_4 4}{\log_4 \frac{94}{100}} = \frac{1}{\log_4 \frac{94}{100}}$$

$$\log_4 \frac{94}{100} = \frac{\log_4 94}{\log_4 100} = \frac{\log_4 4 + 0 \log_4 23}{\log_4 100} = \frac{1 + 0}{1 + \frac{\log_4 23}{\log_4 100}} = 1 + \frac{\log_4 23}{\log_4 100}$$

$$\frac{1}{d} = \frac{100}{94} - \frac{23}{100} = \frac{100 - 23 \times 94}{94 \times 100} \Rightarrow d = \frac{94 \times 100}{100 - 23 \times 94}$$

