

$f(0) = 2 \quad 1 - 1 \cdot \frac{-b}{c} = 2 \quad 1 - \frac{-b}{c} = -1 \quad \frac{1}{c} = -b$

$f(-1) = 0 \quad 1 - 1 \cdot \frac{-b}{c} = 0 \quad \frac{-(-a-b)}{c} = 0 \quad -\frac{a}{c} = 2c + 2b = -2$
 $(a=1)$

$b + c = -\frac{2}{c} \quad c - \frac{1}{c} = -\frac{2}{c} \quad \frac{c^2 - 1}{c} = -\frac{2}{c}$

$2c^2 - 2 = -2c \quad 2c^2 + 2c - 2 = 0 \quad c^2 + c - 1 = 0 \quad (c+2)(c-1) = 0$
 $c = \frac{1}{2} \rightarrow b = -2$
 $c = -2 \rightarrow b = \frac{1}{2}$

$(a+c)b = (1 + \frac{1}{2})(-2) = -2$
 $(a+c)b = (1-2)\frac{1}{2} = -\frac{1}{2}$

-2

$f(0) = \frac{2}{9} \quad 1 + c \times 0^a = \frac{2}{9} \quad c \times 0^a = -\frac{1}{9} \quad \left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix}$

$f(1) = 1 + c \times 1^{a+b} = \dots \quad c \times 1^{a+b} = -1$

$f(-1) = 1 + c \times (-1)^{a-b} = 1 + \frac{c \times 9}{9b} = 1 - \frac{1}{9} = 1 - \frac{1}{9} = \frac{8}{9}$

-2

$f(0) = 2 \quad c + 1 \cdot \frac{b}{c} = 2$
 $f(2) = 0 \quad c + 1 \cdot \frac{b}{c} = 0$
 $\left. \begin{matrix} \\ \\ \end{matrix} \right\} \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix} \quad \begin{matrix} \\ \\ \end{matrix}$

$f(n) = 1 \cdot \frac{|n^2 - 2| - n}{c}$
 $|n^2 - 2| - n > 0 \quad |n^2 - 2| > n$
 $n^2 - 2 > n \quad n^2 - n - 2 > 0 \quad (n-2)(n+1) > 0$
 $n^2 - 2 < -n \quad n^2 + n - 2 < 0 \quad (n+2)(n-1) < 0$
 $D_f = (-2, -1)$

-2

$g(1) = f(1) = -1 = 2 + 1 = 2 = 2 + 2^{b-a} \quad 2^{b-a} = 2 \quad b-a = 1$
 $f(-1) = 1 = 2 + 2^{b+1}$
 $\left. \begin{matrix} \\ \\ \end{matrix} \right\} \rightarrow \left. \begin{matrix} \\ \\ \end{matrix} \right\} \rightarrow 2^{b-a} = 2$

$$\begin{aligned}
 f(1) &= g(1) \Rightarrow 0 = -2 + \left(\frac{1}{t}\right)^{A+B} & \left(\frac{1}{t}\right)^{A+B} &= 2 & A+B &= -1 \\
 f(2) &= g(2) = 2 = -2 + \left(\frac{1}{t}\right)^{2A+B} & \left(\frac{1}{t}\right)^{2A+B} &= 4 & 2A+B &= -2
 \end{aligned}
 \left. \begin{array}{l} A_2 = -1 \\ B = 0 \end{array} \right\}$$

$$f(t) = -2 + \left(\frac{1}{t}\right)^{-2} = 4$$

$$A = A_0 \times \left(\frac{1}{q}\right)^t \quad \frac{1}{4} A_0 = A_0 \times \left(\frac{1}{q}\right)^t \quad \left(\frac{1}{q}\right)^t = \frac{1}{4} \quad \left(\frac{q}{1}\right)^t = 4$$

$$1. \text{ } \frac{1}{4} = \frac{1}{12} = \frac{c}{12} \quad 1. \text{ } \frac{1}{4} = \frac{1}{12} = \frac{c}{12} \rightarrow 1. \text{ } \frac{1}{4} = \frac{c}{12} + \frac{c}{12} = \frac{2c}{12} = \frac{c}{6} \Rightarrow c = \frac{9c}{12}$$

$$\left(\frac{q}{1}\right)^t = 4 \xrightarrow{1. \text{ } \frac{1}{4}} t \cdot 1. \text{ } \frac{1}{4} = \frac{9c}{12} \quad t \times \left(1. \text{ } \frac{1}{4} + 1. \text{ } \frac{1}{4}\right) = t \left(\frac{1}{4} - \frac{c}{12}\right)$$

$$t \left(\frac{1}{4} - \frac{c}{12}\right) = \frac{9c}{12} \quad t = \frac{19}{4} \xrightarrow{+9} 19 \times 4 = 76$$

$$A = A_0 \times \left(\frac{v}{\lambda}\right)^{\frac{t}{v}}$$

$$\frac{1}{v} = \left(\frac{v}{\lambda}\right)^{\frac{t}{v}} \quad \left(\frac{\lambda}{v}\right)^{\frac{t}{v}} = v \xrightarrow{1. \text{ } \frac{1}{v}} \frac{t}{v} \cdot 1. \text{ } \frac{1}{v} = 1$$

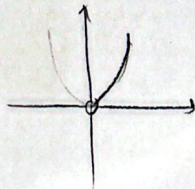
$$\frac{t}{v} \times \left(1. \text{ } \frac{1}{v} - 1. \text{ } \frac{1}{v}\right) = 1 \quad \frac{t}{v} \left(\frac{q}{\lambda} - 1\right) = 1 \quad \frac{t}{v} = \lambda \quad \boxed{t = 56}$$

$$\begin{aligned}
 1. \text{ } \frac{1}{4} &= \frac{1}{14} = \frac{c}{\lambda} \\
 1. \text{ } \frac{1}{4} &= \frac{1}{4} = \frac{c}{\lambda}
 \end{aligned}
 \left. \begin{array}{l} \\ \\ \end{array} \right\} 1. \text{ } \frac{1}{4} = \frac{6}{\lambda} = \frac{c}{\lambda}$$

$$A = A_0 \times \left(\frac{94}{100}\right)^t \quad \frac{1}{4} = \left(\frac{94}{100}\right)^t \quad t = \left(\frac{100}{94}\right)^t \xrightarrow{1. \text{ } \frac{1}{4}} 1 = t \times \left(1. \text{ } \frac{1}{4} - 1. \text{ } \frac{94}{100}\right)$$

$$\begin{aligned}
 1 &= t \left(2 \cdot 1. \text{ } \frac{1}{4} - 1. \text{ } \frac{100}{94} - 1. \text{ } \frac{100}{94}\right) = t \left(\frac{2c}{\lambda} - 1 - \frac{2c}{\lambda}\right) = t \left(\frac{100^2 - 100^2}{100}\right) = 1 \\
 &\quad \times \frac{100}{100} = \frac{2c}{100} \\
 &\quad \frac{1}{4} = \frac{100}{100} = \frac{c}{100} = \frac{c}{\lambda}
 \end{aligned}
 \quad t = 22$$

$$y = 9 \cdot 1. \text{ } \frac{1}{4} + 2 \cdot 1. \text{ } \frac{1}{4} = 11$$



$$y = 1 \cdot x + 2 \cdot x^2 = 2x^2 + x$$

