

$$ax + r a = ax - r \quad \text{r a} = -r \quad a = -r$$

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fungsi

$$f(r) = \frac{r+a}{r-b} = r$$

$$r+a = 1-rb$$

$$a+rb = 1$$

$$a = 1-r = 11$$

$$g(r) = f+b = r$$

$$b = -1$$

$$f(1) = \frac{1+a}{r-b} = \frac{1+11}{r-(-1)} = \frac{1r}{r} = r$$

$$f(x) = \frac{rx+1}{(rx-1)(x+1)}$$

$$rx^2 - 4x - 1$$

$$f(x) = \frac{rx+1}{(rx+r)(x-1)}$$

$$rx^2 - 4x - 1$$

$$a = -4$$

$$b = -1$$

$$f(1) = \frac{r+1}{r-4-1} = \frac{a}{-1r}$$

$$-(rx+r)^r = -(rx^r + r + 1x) = -rx^r - 1x - r$$

$$a+b = -r$$

$$\Delta < 0 \rightarrow m^r - r < 0 \quad m^r < r \quad -r < m < r$$

$$m = -r \quad x^r - rx + 1 = 0 \quad (x-1)^r = 0 \quad -r < m < r = [-r, r)$$

$$x^r > 0 \quad x \neq 0 \quad I$$

$$r - \frac{1}{x^r} > 0 \quad r > \frac{1}{x^r} \quad rx^r > 1 \quad x^r > \frac{1}{r} \quad x > \frac{1}{r} \quad / \quad x < -\frac{1}{r} \quad II$$

$$I \cup II \Rightarrow x \in (-\infty, -\frac{1}{r}] \cup [\frac{1}{r}, +\infty)$$

$$mx^r + rmx + 1 = 0$$

$$m = 0 \rightarrow 1 > 0 \quad / \quad m \neq 0 \rightarrow \Delta \leq 0$$

$$(rm^r) - rm = rm^r - rm < 0$$

$$r(m(m-1)) < 0$$

$$\frac{0}{+ \quad - \quad - \quad +} \quad m \in [0, 1]$$

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①

$$\cancel{k}x \frac{1}{\cancel{k}} + k = \cancel{k}x \frac{1}{\cancel{k}} + 1$$

$$\begin{cases} r+k = r \\ k = 0 \end{cases}$$

$$rx+1 = \frac{rx^r-1}{rx-1}$$

$$rx-1 \rightarrow rx-1 \neq 0$$

$$rx \neq 1$$

$$x \neq \frac{1}{r} = a$$

$$a+k = \frac{1}{r} + 0 = \frac{1}{r}$$

$$ra \times \left(-\frac{r}{r}\right) + r = r \left(-\frac{r}{r}\right) + b$$

$$-ra + r = -r + b$$

$$ra + b = r$$

$$ra + (-b) = r$$

$$a = r$$

$$\frac{rx^r - r}{rx + r} = rx + b$$

$$rx^r - r = (rx + b)(rx + r)$$

$$\rightarrow = -r$$

$$a - b = r - (-r) = a$$

⑥

②

$$ra^r + a \times r = r + r$$

$$ra^r + ra = r$$

$$ra^r + ra - r = 0$$

$$a^r + a - r = 0$$

$$r-1 \quad r(-1)$$

$$(a+r)(a-1) = 0$$

$$a = -r \quad a = 1$$

⑦

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