

Subject: ()

r_0

تاریخ: _____
Date: _____

$$a^r + r a = a^r - f \rightarrow r a = -f \rightarrow a = -\frac{f}{r}$$

1
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$$f(r) = \frac{f+a}{f-b} = r \rightarrow f+a = r f - r b \quad g(r) = f+b = r - b = -1$$

3
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$$f+a = r f - r(-1) = a = 11$$

$$f(1) = \frac{x^r + 11}{r x + 1} = \frac{1+11}{r+1} = \frac{1r}{r} = 1$$

$$x-1 \quad r(-1)^r - a + b = 0$$

$$r(f)^r + f a + b = 0$$

$$\rightarrow \begin{cases} -r + a - b = 0 \\ r^2 + f a + b = 0 \end{cases}$$

$$r_0 + 0 a = 0 \rightarrow b = -1$$

$$a = -9$$

5
6

$$f(1) = \frac{f+1}{r-9-1} = \frac{0}{-1r}$$

$$-(rx+r)^r = -(fx^r + f+rx) = -fx^r - rx - f \quad \left. \begin{matrix} a+b = \\ -1-f = -1r \end{matrix} \right\}$$

$$-1-f = -1r$$

7
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$$\Delta < 0 \rightarrow m^2 - f < 0 \quad m^2 < f \rightarrow -r < m < r$$

9
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$$\text{if } -r = m \rightarrow x^r - rx + 1 = 0 \rightarrow (x-1)^r = 0 \rightarrow -r \leq m < r \quad [r, r]$$

$$f - \frac{1}{x^r} \geq 0 \rightarrow f \geq \frac{1}{x^r} \rightarrow \frac{1}{f} \geq x^r \rightarrow x \geq \frac{1}{f}, x \leq -\frac{1}{f}$$

$$x^r \neq 0 \rightarrow x \neq 0 \rightarrow x \cdot D_f = (-\infty, -\frac{1}{f}] \cup [\frac{1}{f}, +\infty)$$

$$mx^r + rmx + 1 = 0 \rightarrow \Delta \leq 0 \rightarrow f_m^r - f(m)(1) \leq 0$$

$$f_m^r - f_m \leq 0 \rightarrow \frac{m}{0} (f_m - f) \leq 0 \quad \frac{0}{+|-|+} \quad m \in [0, 1]$$

$$f(\frac{1}{f}) + k = r(\frac{1}{f})^r + 1 + k = 0$$

$$rx - 1 \neq 0 \rightarrow rx \neq 1 \quad a + k = 0 \rightarrow \frac{1}{f} = \frac{1}{f} \quad x \neq \frac{1}{f} \rightarrow a = \frac{1}{f}$$

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

$$\text{if } x = 1 \rightarrow f(1) + b = \frac{f(1) - f}{f(1) + r} \rightarrow r + b = 1 \rightarrow b = -r$$

$$-ra + r = -r - r \rightarrow -ra = -r \rightarrow a = r$$

$$a - b = r - (-r) = 2r$$

$$ra^r + ra = r + r \rightarrow ra^r + ra - f = 0 \rightarrow a^r + a - r = 0$$

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

$$a = 1, a = -r$$