

۲۰

نام و نام خانوادگی ..... کلاس ..... پاسخنامه تشریحی تکلیف شماره ۲۸

$$a^r + r a = a^r - f$$

$$r a = -f$$

$$a = \frac{-f}{r}$$

۱

$$f + b = r \quad b = 1$$

$$\frac{f + a}{r} = \frac{f + 1}{r} \quad a = 1$$

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

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

۲

$\frac{-1}{r}$	$\frac{f}{r}$	$\frac{r}{r}$	$\frac{1}{r}$
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$$a^r (m+1)(m-f) = a^r (r m^2 - 4m - 1)$$

$$\frac{f m + 1}{r m^2 - 4m - 1} = \frac{f + r \omega}{r - 4 \omega} = \frac{-\omega}{r}$$

۳

$$\frac{-f(m+1)^r}{a^{r+m+1}} = \frac{-f 2a^r - 1 a^r - f}{a^r} = \frac{-f 2a^r - 1 a^r - f}{a^r}$$

$$a + b = -1r$$

۴

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

$$m^r < f$$

$$-r < m < r$$

$$m \in [-r, r)$$

$$(a-1)^r \quad a^r - r m + 1 - m = -r$$

۵

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

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

$$f x^r - 1 \geq 0$$

$$\begin{aligned} f x^r &\geq 1 & x > \frac{1}{f} & \quad x \leq -\frac{1}{f} \\ x^r &\geq \frac{1}{f} & & \end{aligned} \quad D_f = \mathbb{R} - \left(-\frac{1}{f}, \frac{1}{f}\right)$$

$$a > 0$$

$$m > 0$$

$$\Delta \geq 0$$

$$f m^r - f m \geq 0$$

$$f m(m-1) \geq 0 \quad m \in [0, 1]$$

$$x = \frac{1}{f} \quad g(m) = f(m)$$

$$1 + 1 = r = r + k$$

$$k = 0$$

$$a = \frac{1}{f}$$

$$a + k = \frac{1}{f}$$

$$\begin{aligned} a &\neq x \\ r m - 1 &\neq 0 \\ x &\neq \frac{1}{f} \end{aligned}$$

$$x = -\frac{r}{f}$$

$$-r + b = -r a + r \rightarrow \begin{aligned} -r &= -r a + r \\ a &= r \end{aligned}$$

$$m = 1$$

$$\frac{a - r}{r + r} = r + b \quad \hookrightarrow b = -r$$

$$\left. \begin{aligned} a - b \\ r + r = 0 \end{aligned} \right\}$$

$$n = r$$

$$f = r a^r + r a$$

$$n = 1$$

$$r = \frac{-r}{-1}$$

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

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

$$(a + r)(a - 1) \quad \left\{ \begin{aligned} \hookrightarrow -r \\ \hookrightarrow 1 \end{aligned} \right\}$$