

نام و نام خانوادگی محمدی
 کلاس ۱۳۸ پاسنامه تشریحی تکلیف شماره
 نام و نام خانوادگی محمدی

۱	$1 + a + b = 0 \Rightarrow a + b = -1$ $\Rightarrow a = 2 \Rightarrow b = -3$
۲	$1 + a + b = 0 \Rightarrow a - a + b = 0 \Rightarrow b = 0$ $\Rightarrow a = 1 \Rightarrow b = -1$
۳	$2a + \frac{3x}{x} = -1 \Rightarrow 2a + \frac{3x}{x} = -1$ $\Rightarrow 2a + 3 = -1 \Rightarrow 2a = -4 \Rightarrow a = -2$
۴	$f(x) = a[x+1] + b[x+1] \Rightarrow [x+1](a+b) \Rightarrow$ $\Rightarrow a + b + b[a] = b[a] \Rightarrow a + b = 0 \Rightarrow a = -b$ $\Rightarrow a = 1 \Rightarrow b = -1$
۵	$b = 0 \Rightarrow f(x) = -1a = -1$ $\Rightarrow a = 1 \Rightarrow b = -1$

$$\textcircled{1} \Rightarrow a^r + a^{m+r} = 0 \quad / \quad \text{hop} \Rightarrow \frac{r+m}{-1} \stackrel{x=a}{\Rightarrow} r+a+m = -r \Rightarrow$$

$$\Rightarrow f(r,a) \Rightarrow (a^r + r a^{m+r} = 0 \Rightarrow r a^r + a^m = 0 \Rightarrow a(r a + m) = 0 \quad \begin{matrix} \nearrow a=0 \\ \searrow a = \frac{m}{r} \end{matrix}$$

$$m = -r \quad \} \quad a = r \quad \} \quad h = 1 \quad \} \quad \underline{h-m = 1} \quad \} \quad r$$

$$1^+ \Rightarrow (1-a) + (r a^r - 1)(-r) \Rightarrow 1-a-r a^r + r = b \sin \frac{\pi}{a} \Rightarrow -r a^r + 1 = -r a^r - a + r \Rightarrow$$

$$0^+ \Rightarrow 0 - r a^r + 1 = b \sin \frac{\pi}{a} \quad \} \quad -r a^r - a + r \Rightarrow x_{br} = \frac{1 \pm \omega}{-r} \quad \begin{matrix} \nearrow -1 \text{ } \omega \text{ } \hat{e} \\ \searrow \frac{r}{\omega} = a \end{matrix}$$

$$b \sin \frac{\pi}{a} \Rightarrow -b = -r \left(\frac{r}{\omega}\right)^r + 1 \Rightarrow b = \frac{1}{r} \Rightarrow \frac{a}{b} = \frac{r}{\frac{1}{r}} = r$$

$$1^+ \Rightarrow \frac{x^r + m x - m - 1}{m x^r - m + x + 1} \quad \text{hop} \Rightarrow \frac{r+m}{r m + 1} \stackrel{x=1}{\Rightarrow} \frac{r+m}{r m + 1} = \frac{m}{m+r} \Rightarrow m^r - r m - r \quad \begin{matrix} \nearrow r \omega \\ \searrow -1 \end{matrix}$$

$$1^- \Rightarrow \frac{x^r + m}{x^r + m} \quad \text{hop} \Rightarrow \frac{x^r + m}{r m + 1} \stackrel{x=1}{\Rightarrow} \frac{r+m}{r m + 1} \quad \} \quad f(-1) \Rightarrow \frac{|1-r m - 1|}{0 + 1 - r} = \frac{r}{r} \quad \wedge$$

$$\frac{1}{r}$$

$$\frac{|a| \sqrt{r} |x+1|}{|x^r + (m-r)x + a|} \stackrel{x=a}{\Rightarrow} \frac{|a| \sqrt{r} |1+a|}{|a^r + (m-r)a + a|} \quad \text{hop} \Rightarrow \frac{a}{r a^r + m - r} \Rightarrow$$

$$a(a^r + m - r + a) = 0$$

$$a=0 \Rightarrow r m - r \neq 0 \Rightarrow \frac{a}{r(a^r + m - r)} = \text{ind}$$

$$1^+ \Rightarrow \frac{x^r + r}{x^r + r} \stackrel{\text{hop}}{\Rightarrow} \frac{r+1}{r+1} = \frac{1}{a} = \frac{r a - 1}{r a + r} \Rightarrow r a^r - r a - r \rightarrow r + (r-1) \omega$$

$$a = \frac{r-1}{r} \rightarrow \frac{1}{r} \quad \} \quad \lim_{x \rightarrow \frac{1}{r}} f(x) \Rightarrow \frac{\frac{1}{r} + \frac{1}{r}}{\frac{1}{r} + 1} = \frac{\frac{2}{r}}{\frac{1+r}{r}} = \frac{2}{1+r}$$