

$$\left\{ \begin{array}{l} r_{n-1} \quad n \geq 2 \\ r_{n+1} \quad n < 2 \end{array} \right.$$

$$f(n) = n+1 \geq 0$$

(1)

$$\left[-\frac{1}{n}, +\infty \right)$$

$$r_{n-1} - n + 1 \geq 0 \quad n \geq 0 \rightarrow n \geq 2$$

$$r_{n+1} - n + 1 \geq 0 \quad n < 2 \rightarrow n \geq -\frac{1}{n}$$

$$r_{n+1} - r_n \neq 0$$

$$R = \left\{ \frac{1}{n} \right\} \quad r(\frac{1}{n} + \frac{1}{n+1} + \frac{1}{n+2}) \rightarrow$$

(2)

$$\frac{r(r_{n+1})^r}{(r_{n+1})^r} = \boxed{r_{n+1}^r}$$

$$r^r + r_{n+1} - n - r = \frac{(n+r)(r_{n+1}-1)}{r_{n+1}-1} \rightarrow n+r$$

$$\boxed{C=r}$$

(3)

$$\frac{-a+r}{b-1} = 1$$

$$-a+r_{n+1}b-1$$

$$b+a=r$$

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

$$rb=r$$

$$b=1$$

$$\boxed{b+c=r, d}$$

$$\frac{n+1}{n-c} = \frac{r_{n+1}-1}{r_{n+1}an+b} \rightarrow \frac{(n-1)(n+1)}{(n-1)(n-c)}$$

$$r_{n+1} - r_{n+1} = n' + an + b$$

$$\boxed{a+b+c = -r+1+1=0}$$

$$\boxed{C=1}$$

$$f(n) d(n-r)^r (n-1)$$

$$g(n) f(n+1) = f(1-n)$$

(4)

$$(n-r)^r (n) + (-n-r)^r (-n) =$$

$$\boxed{g(n) = -\Lambda n^r}$$

$$= \frac{1}{r} (r^r + d - dn)$$

$$(r^r + d - dn) \cdot n + (-n^r + d - dn) \cdot n = n(-\Lambda n)$$

$$f(1-xn)_2 \left\{ \begin{array}{l} \sqrt{n+r} \quad n \leq 0 \\ d\sqrt{n} \quad n > 0 \end{array} \right.$$

$$f(-1) + f(1) = ?$$

(5)

$$\boxed{d+1=0}$$

$$1-rn=-1$$

$$\boxed{n=1}$$

$$1-rn=r$$

$$\boxed{n=-1}$$

$$f(n) = \sqrt{n} = n^{\frac{1}{2}} + e_n \quad f(4) = 2 + 1 = 3 \quad \boxed{24\Delta} \quad \textcircled{V}$$

$$n - \sqrt{n} - 4 = 0 \quad \sqrt{n} = x \quad (x+4)(x-x) \quad \sqrt{n} = -4x$$

$$\sqrt{n} = x \quad \boxed{n = 4}$$

$$n - 1 = 0 \quad n = 1 \quad f(1) = (1+1) - (1+1) = 0 \quad f(n) = (n+1)^{\frac{1}{2}} + 2n-1 \quad \textcircled{\wedge}$$

$$1 - n = 0 \quad n = 1 \quad f(1) = (1-1)^{\frac{1}{2}} + 1-1 = 0 \quad \textcircled{0} \rightarrow \boxed{4n^2 + 4}$$

$$f(n) = \sqrt{an - ka} + k - 1 \quad g(n) = \sqrt{b - an} + k \quad \textcircled{9}$$

$$f - g = \{(1, k)\} \quad \sqrt{a} - \sqrt{b} = k = ?$$

$$\sqrt{a} \geq \sqrt{a} \quad \sqrt{a} \geq \sqrt{a} \quad \sqrt{a} \leq \sqrt{b} \quad \sqrt{a} \leq \sqrt{b} \quad \frac{\sqrt{a}}{a} = \frac{\sqrt{b}}{b} = 1$$

$$\sqrt{a - \frac{ka}{a}} + k - 1 = \sqrt{b - a + ka} \Rightarrow \sqrt{a - 1} + k - 1 = \sqrt{b - a + ka} \quad \boxed{k=1}$$

$$\sqrt{a - \frac{ka}{a}} = \frac{a}{a} + 1 = 2 \quad \textcircled{2}$$

$$f(n) = \sqrt{m - n} + k \quad g(n) = \sqrt{2n + 1} \quad \textcircled{10}$$

$$f - g = \sqrt{m - n} + k - \sqrt{2n + 1} \quad m - n = ?$$

$$m - n \geq 1 \quad m \leq n \quad \left. \begin{matrix} m \geq 1 \\ m \leq n \end{matrix} \right\} m = 1 \quad \sqrt{1 - \frac{1}{1}} + 1 = 1 - 1 + 2 = 2$$

$$m + k = 1\sqrt{1} + 1$$

$$\boxed{n = 1\sqrt{1} - 1}$$