

$$r((a+1)v) = ra - r + a$$

$$10a = -1 \quad a = -1/10$$

(1)

$$\sqrt{r-\sqrt{r}} + \frac{1}{\sqrt{r-\sqrt{r}}} + r$$

(2)

$$\frac{\sqrt{(r-\sqrt{r})^2 + 1}}{\sqrt{r-\sqrt{r}}} = \frac{r-\sqrt{r}}{\sqrt{r-\sqrt{r}}} + r \rightarrow \frac{\sqrt{r}(\sqrt{r}-1)}{\frac{\sqrt{r}-1}{\sqrt{r}}} = \sqrt{r}$$

$$\sqrt{r+\sqrt{r}} + \frac{1}{\sqrt{r+\sqrt{r}}} + r = \frac{\sqrt{(r+\sqrt{r})^2 + 1}}{\sqrt{r+\sqrt{r}}} = \frac{r+\sqrt{r}}{\sqrt{r+\sqrt{r}}} + 2 \rightarrow \frac{\sqrt{r}(\sqrt{r}+1)}{\frac{\sqrt{r}+1}{\sqrt{r}}} = \sqrt{r}$$

$$(r-\sqrt{r})(r+\sqrt{r}) = r^2 - r = 1$$

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

$$r \pm \sqrt{r} = \frac{r^2 \pm r\sqrt{r}}{r} = \frac{(\sqrt{r} \pm 1)^2}{r}$$

$$\sqrt{r} + \sqrt{r} + r \rightarrow r + 2\sqrt{r}$$

(3)

$$\begin{aligned} x^r \{ r f(n) - r f(-n) \} &= r n^r - n \\ x^r \{ r f(-n) - r f(n) \} &= -r n^r + n \end{aligned}$$

$$- \Delta f(n) = -r n^r + n$$

$$f(n) = \frac{-r n^r + n}{- \Delta}$$

(4)

$$f(0) \rightarrow r f(0) - r f(0) f(n+r) = r n - 1$$

$$r f(0) = r n - 1$$

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

(5)

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

$$A \rightarrow (n-1)\sqrt{1-n} - \frac{1}{- \phi + r}$$

(6)

$$B \rightarrow -\sqrt{(1-n)^2} - \frac{1}{- \phi + r}$$

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$$\xrightarrow{n \rightarrow 0} A \rightarrow -1 \left(\frac{1}{\sqrt{r}} \right) = -1$$

$$B = -\sqrt{1} = -1$$

$$n\sqrt{n} \quad Df \subset [0, +\infty)$$

$$\sqrt{n}r \quad Df \subset [0, +\infty)$$

$$\{ \sqrt{n} - [\sqrt{n}] \} \quad Df \subset [0, +\infty)$$

$$\sqrt{n - \ln n} \rightarrow Df \subset [0, +\infty)$$

$$g = \{(1, 1) \quad (2, 3) \quad (3, 0) \quad (0, 2)\}$$

$$f = \{(1, 2) \quad (2, 3) \quad (3, 1) \quad (0, 0)\}$$

$$(1, \frac{r+1}{r-1}) \rightarrow (1, 3)$$

$$(2, \frac{r+r}{r-r}) = (2, \frac{r}{0}) \text{ غير معرف}$$

$$0 \times 1 = 0$$

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

$$r \leq -1 \text{ و } rn \quad n > 1$$

$$-1 \leq rn-1 \quad n \geq 0$$

$$0 \leq rn-1 \quad n \leq 2$$

$$-r \leq rn-1 \quad n \leq -\frac{1}{r}$$

$$r \leq rn-1 \quad n \geq \frac{r}{r}$$

$$\{(1, 1) \quad (0, 1) \quad (2, 0) \quad (-\frac{1}{r}, 2) \quad (\frac{r}{r}, -1)\}$$