

$$\sqrt{\frac{n + \varepsilon \sqrt{n - \varepsilon} + \varepsilon - \varepsilon}{(\sqrt{n - \varepsilon} + \varepsilon)^2}} \rightarrow \sqrt{\frac{(\sqrt{n - \varepsilon} + \varepsilon)^2}{(\sqrt{n - \varepsilon} + \varepsilon)^2}} \rightarrow \sqrt{n - \varepsilon} + \varepsilon$$

$$\sqrt{\frac{n + \varepsilon \sqrt{n - \varepsilon} + \varepsilon - \varepsilon}{(\sqrt{n - \varepsilon} - \varepsilon)^2}} \rightarrow \sqrt{\frac{(\sqrt{n - \varepsilon} - \varepsilon)^2}{(\sqrt{n - \varepsilon} - \varepsilon)^2}} \rightarrow \sqrt{n - \varepsilon} - \varepsilon$$

$$2\sqrt{n - \varepsilon} \quad \text{as } b, c \rightarrow \varepsilon \quad \frac{\varepsilon}{-\varepsilon} = -1$$

$$f(n) = \frac{n + \varepsilon}{(n - 1)(n - 2)}$$

$$g(n) = (1, 1) (1, 1) (1, 1) (1, 1) \rightarrow n \rightarrow \frac{1}{n} \quad (0, \frac{1}{n})$$

in the case of

$$f(n) = \frac{n + \varepsilon}{1} \rightarrow \frac{1}{-\varepsilon} \rightarrow -\frac{1}{\varepsilon}$$

$$(1, \frac{1}{\varepsilon}) (0, 1)$$

$$f(n) \rightarrow (\frac{1}{n}, 1) (\frac{1}{n}, -1) (1, 1) (\frac{1}{n}, 1)$$

$$f(n) = (1, 1) (\sqrt{2}, -1) (1, 1)$$

$$g(n) = (-1, 1) (1, 1) (1, 1) (-1, 1)$$

$$g(n) = (1, \frac{1}{-1}) (1, -1) (1, 1)$$

$$(1, 0) (1, 0) (-1, 1)$$

$$\frac{\sqrt{\sqrt{n} - n}}{n - 1}$$

$$n \geq 0, \sqrt{n}, n \quad n \geq n^2 \quad n^2 - n = 0$$

$$[n] + [-n] + 1$$

$$\neq -1$$

$$n \in \mathbb{Z} \rightarrow [n] + [n] + 1 \leq 1 \quad \checkmark$$

Arman

$$f(x) = \sqrt{-(x^2 - 6x + 5)}$$

$$\sqrt{-(x-5)(x-1)} \rightarrow (1, 5)$$

$$+ \quad - \quad +$$

$$(1, 5) \quad (1, 5) \quad (5, 1) \quad (5, 1)$$

$$(1, 0) \quad (1, 1) \quad (5, 0)$$

$$الف) \quad y = x^2 - 6x + 5 \rightarrow (x-1)^2 = x^2 - 2x + 1$$

$$y = (x-1)^2 + 1$$

$$\sqrt{y-1} = (x-1) \quad y = 1/R$$

$$ب) \quad y = \frac{1}{x^2 - 6x + 5} \quad y = \frac{1}{(x-1)^2 - 1} \quad (x-1)^2 = \frac{1}{y} \rightarrow (x-1)^2 = \frac{1}{y} + 1$$

$$x-1 = \sqrt{\frac{1}{y} + 1} \quad \sqrt{\frac{y+1}{y}} = x-1$$

$$R \quad \frac{1}{x-1} = \frac{0}{1} \quad (\infty, -1] \cup (0, \infty)$$

$$الف) \quad y = x^2 - 6x + 5 \rightarrow x = 1 \pm \sqrt{y-1} \quad [4, \infty) \quad -1$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$ب) \quad y = x^2 - 6x + 5 \rightarrow x = 1 \pm \sqrt{y-1} \quad (-\infty, 1] \quad \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$ج) \quad y = \sqrt{x^2 - 6x + 5} \quad x = 1 \pm \sqrt{y-1} \quad \sqrt{[-1, \infty)} \rightarrow [0, \infty)$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$د) \quad \sqrt{4x - x^2} \quad \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \Rightarrow \frac{-4 \pm \sqrt{16 - 4(-4)}}{2(-1)}$$

$$11 - 9 \leq 9 \quad (-\infty, 9] \rightarrow [0, 9]$$

الف $R \rightarrow R$
 به نكهه الاخرى صفر

91

ب $R \rightarrow R$

ج $\sqrt{R} \rightarrow R$

د $(R)^2 \rightarrow R$

1.

هـ $R - \{2\}$

و $R - \{2\}$

5

20

25

30