

نویسب

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SUBJECT:

Year:

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$$f(x) = \sqrt{x-\varepsilon + \varepsilon\sqrt{x-\varepsilon} + \varepsilon} = |\sqrt{x-\varepsilon} + 1| \quad x \geq 1 \quad (1)$$

$$g(x) = \sqrt{x-\varepsilon - \varepsilon\sqrt{x-\varepsilon} + \varepsilon} = |\sqrt{x-\varepsilon} - 1|$$

$$(g+f)(x) = 2\sqrt{x-\varepsilon} \rightarrow a=0, b=2, c=-\varepsilon \rightarrow -\frac{1}{2}$$

$$Df = B - \{1, 2\} \Rightarrow Df \cap Dg \Rightarrow \{2, 0\}$$

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

$$g = \left\{ \left(2, \frac{1}{2-\varepsilon}\right), (2, 0) \right\}$$

$\rightarrow x \neq 1$

$$f(x) = \left\{ \left(\frac{1}{2}, 2\right), \left(\frac{3}{2}, -1\right), (2, 2), \left(-\frac{1}{2}, 4\right) \right\}$$

$$f(x) = \left\{ (1, 2), (-1, 2), (\sqrt{2}, -1), (-\sqrt{2}, -1), (2, 2), (-2, 2) \right\}$$

$$g(x) + 1 = \left\{ (-2, 1), (1, 3), (2, 1), (-1, 1) \right\}$$

$$\frac{f}{g} = \left\{ (1, -\varepsilon), \left(\frac{3}{2}, -1\right) \right\}$$

$$D_h = D_f \cap D_g \quad \left\{ h = \{(1, \omega), (-1, \gamma), (1, \omega)\} \right\} \quad (8)$$

$$D_f = \{x, y\} \cap \{x, y\} = \{x\} \quad \text{if } x \neq y \rightarrow (9)$$

$$\sqrt{r^2 + n^2} \geq n \quad g(n) = [n] + [-n]$$

$$n(n-r) \quad D = \{0, 1, 2\}$$

$$f(n) = \sqrt{-n^2 + \omega n - 1} \rightarrow D_f = [1, 2] \quad (9)$$

$$g(n) = \{(1, r), (1, r), (1, \gamma), (\omega, 1)\}$$

$$D_f \cap D_g = \{1, 2, 3\} \rightarrow h(n) = \{(1, 0), (1, 0), (1, \frac{\sqrt{2}}{2})\}$$

$$x^r - r x^{r-1} + r x - 1 \rightarrow (x-1)^r = 1 \rightarrow x = \sqrt[r]{y-1} + 1 \quad (10)$$

$$R = R$$

$$y_n^r - r y_n - 1 = 0$$

$$\Delta = 2y^r + 2y \rightarrow n = \frac{1 \pm \sqrt{2y^r + 2y}}{2y} \rightarrow 2y^r + 2y \geq 0 \rightarrow$$

$$2y(y+1) \geq 0 \rightarrow y \geq -1 \rightarrow R = (-\infty, -1] \cup [0, +\infty)$$



$$\text{الف) } \frac{-4}{19} = \frac{x}{r} = 2 \rightarrow R = [4, +\infty)$$

(1)

$$\text{ب) } \frac{-4}{-2} = 2 \rightarrow R = (-\infty, 2]$$

$$\text{ج) } \frac{9}{5} = -1 \rightarrow R = [0, +\infty)$$

$$\text{د) } \frac{9}{5} = 9 \rightarrow R = [0, 9]$$

$$\text{الف) } R = R \quad \text{ب) } R = R \quad \text{ج) } R = [0, +\infty)$$

(9)

$$\text{د) } R = [0, +\infty)$$

لے بیت دافلا را دیو

تو ترین توان فردی در R

$$\text{الف) } R = R - \left\{ \frac{1}{2} \right\} \rightarrow R - \left\{ \frac{1}{2} \right\}$$

(16)

$$\text{ب) } R = R - \left\{ \frac{1}{2} \right\}$$