

~~$\log(x-1) > 0 \rightarrow x-1 > 1 \rightarrow x > 2 \rightarrow (2, +\infty)$~~

5 $-x^2 + 4x - 4 > 0 \rightarrow (x-2)^2 < 0 \rightarrow Dg = \{2\}$

$\sqrt{\log \frac{x-1}{2}} = 2 \rightarrow x=17 \rightarrow (2, +\infty) \cap \{17\} = \{17\}$

10 $2x^2 - 4x + 14 = (2x-2)^2 - 4x - 2 + 14$

$2x^2 - 4x + 14 = 4x^2 + 4x - 2 - 4x - 2 + 14$

$2x^2 - 4x + 14 = 4x^2 - 2 + 14$

$0 = 2x^2 - 20x + 14$

15 $\frac{20 \pm \sqrt{104}}{2} \rightarrow \left(\frac{20 - \sqrt{104}}{2}\right)^2 + \left(\frac{20 + \sqrt{104}}{2}\right)^2 = 412$

مربع - مبات $S^2 - 2P = \left(\frac{20}{2}\right)^2 - \frac{14}{2} = 100 - 7 = 93$

$2x = t \rightarrow x = \frac{t}{2}$

$\omega\left(\frac{t}{2}\right)^2 + 11 \rightarrow \omega \frac{t^2}{4} + 11 \rightarrow g(n-v) = \omega \frac{2t^2 - 102t^2}{4} + 11$

$\omega \frac{2t^2}{4} + 11$

$\min(g(n-v)) = \frac{0}{4} + 11 = 11$

$(n-v)^2 = 9n^2 - 12n + 10$

25 $g = 4n^2 - 4n - 1 \rightarrow g = (n-1)^2 \rightarrow (4n-1-1)^2 = 16n^2 - 16n + 4$

$f(g(n)) = -2n + \omega(t) \rightarrow f(n) = 2n + 1$

$f_g(n) - f(n) = -1$

$2n + 1 - g = -n + \omega \rightarrow g(n) = 3n - 1$

30 $\log g(n) = 2(3n-1) \leq 1 \rightarrow n=0, y=1$

$y=0 \rightarrow 2(3n-1) = -1 \rightarrow n = -\frac{1}{6} = a = -\frac{1}{6}$

$$g \circ f = \log \circ \log^{\frac{1}{2}} = \log^{\frac{1}{2}}$$

$$\log = \log^{\frac{1}{2}} = \log^{\frac{1}{2}}$$

$$n^2 \leq 2m \rightarrow \vec{u}(\vec{n}, \vec{r}) \leq 0$$

$$+ \frac{0}{2} = \frac{0}{2} + \frac{2}{2} = 1$$

$$f(n - \frac{1}{2}) \xrightarrow{\text{Omit}}, (n - \frac{1}{2})^2 + (n - \frac{1}{2})$$

$$f(n) = n^2 + n$$

$$f \circ g = \log \circ \log^{\frac{1}{2}} = \log^{\frac{1}{2}}$$

$$Dg = IR \quad / \quad Rf = (0, 1)$$

$$n - n^2 > 0 \rightarrow \frac{0}{2} = \frac{0}{2} + \frac{2}{2} = 1$$

$$Df \circ g = (0, 1) \rightarrow A$$

$$Rf \circ g \rightarrow n = \max \rightarrow f$$

$$y_5 = 14 \rightarrow \log^{\frac{1}{2}} = f \rightarrow [-2, 2] \rightarrow B$$

~~AB~~

$$A \cap B \rightarrow \text{مجموعه}$$

$$f(n) = 1 - n^2$$

$$\log \rightarrow n^2 - 1 - n^2 + 2n - 1$$

$$\log = f$$

$$n^2 - 1 - n^2 + 2n - 1 = 2n - 2$$

$$\rightarrow n^2 + 2n - 1 = 0 \rightarrow n^2 = -2n + 1$$

$$\rightarrow \text{نمودار}$$

$$g - \frac{f}{n} = \frac{1}{n}$$

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

$$f(1) \rightarrow g(1) \rightarrow a - 1 - 1 \rightarrow a = 2$$

$$f(2) \rightarrow g(2) \rightarrow 4a + 1 - 1 \rightarrow a = 0$$

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