

17/10

A Circle

مریم بیکو دوازدهم (ف)

$$f(n) = \sqrt{\log_p^{(n-1)}}$$

$$g(m) = \sqrt{-n^2 + \epsilon n - \epsilon}$$

(1 سوال)

$$Dg \circ f(m) = ?$$

$$g \circ f \rightarrow f(m) = t \rightarrow \sqrt{-t^2 + \epsilon t - \epsilon} = \sqrt{-(t-2)^2}$$

$$t-2=0 \Rightarrow t=2 \quad \leftarrow \text{موجب دایره است}$$

$$t=2 \rightarrow f(n)=2 \rightarrow \sqrt{\log_p^{(n-1)}} = 2 \rightarrow \log_p^{n-1} = 4$$

$$\Rightarrow n-1=16 \rightarrow \boxed{n=17}$$

$$Dg \circ f(m) = \{17\}$$

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

$$g(m) = n^2 - 2n + 1$$

$$f \circ g(m) = g \circ f(m)$$

(2 سوال)

$$\alpha^2 + \beta^2 = ?$$

$$f \circ g(n) = 2(n^2 - 2n + 1) - 2 \rightarrow 2n^2 - 4n + 1$$

$$g \circ f(m) = (2m-2)^2 - 2(2m-2) + 1 = 4m^2 - 4m + 1$$

$$4m^2 - 4m + 1 = 2m^2 - 4m + 1 \Rightarrow 2m^2 - 2m + 1 = 0$$

$$\alpha^2 + \beta^2 = S^2 - 2P \rightarrow S = \frac{1}{2} = 1 \rightarrow S^2 - 2P = 1 - 2P = 0 \rightarrow \boxed{P = \frac{1}{2}}$$

$$g \circ f(m) = 2n^2 + 11 \quad f(n) = 2n \quad \min g(n-1) = ?$$

(3 سوال)

$$f(n) = 2n \rightarrow 2n = t \rightarrow n = \frac{t}{2} \rightarrow 2\left(\frac{t}{2}\right)^2 + 11 = g(t)$$

$$\Rightarrow g(m) = \frac{2n^2}{2} + 11 \rightarrow g(m-1) = \frac{2(n-1)^2}{2} + 11$$

$$\Rightarrow g(m-1) = \frac{2n^2}{2} - \frac{2n}{2} + \frac{2}{2} + 11$$

مجموعه دایره

پایان

$$\min \left| -\frac{b}{a} \right| = v$$

$$y_{\min} = 11$$

1. $\text{C}_6\text{H}_5\text{Br}$ min H_2O $\text{C}_6\text{H}_5\text{OH}$ H^+ $\text{C}_6\text{H}_5\text{Br}$

$$f(n) = \mu n - \varepsilon$$

$$f \circ g(n) = 4n^2 - 4n - 1 \quad g \circ f(n) = 2^n$$

$$g \circ f(x) = 2^x$$

(Folger)

$$\rightarrow f \circ g(n) = \mu g - r = \mu n^r - 4n - 1 \Rightarrow \mu g = \mu n^r - 4n + 1$$

$$\Rightarrow g(n) = n^r - r n + 1$$

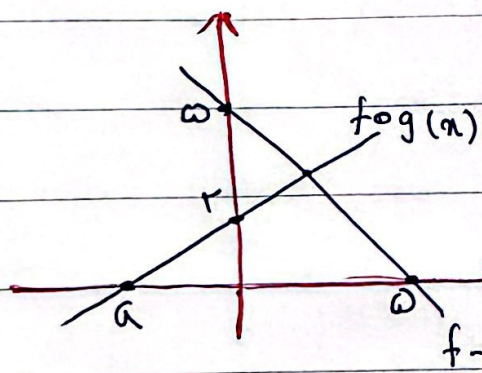
$$g \circ f(n) = (r_n - \epsilon)^r - \Gamma(r_n - \epsilon) + 1$$

$$\Rightarrow 99P - 100n + 100$$

$$\gamma g(x) = \psi f(x) - 1 \varepsilon$$

سوال (۵)

$$g(n) = \frac{3}{7}f(n) - v \rightarrow \text{عدد تابع خطی}$$



$$f - g(n) = -n + \omega \Rightarrow f(n) - \frac{1}{f} f(n) + v$$

مقدار

$$= -\frac{1}{f} f(n) + v = f - g(n)$$

$$\Rightarrow -\frac{1}{p} f(n) + v = -n + \omega \Rightarrow f(n) = pn + c$$

$$g(n) = \frac{\mu}{P} (r_{n+1}) - v \Rightarrow g(n) = \mu n - 1$$

$$\begin{aligned} f \circ g(m) &= r(rm-1) + 8 \\ &= 9m + 7 \end{aligned}$$

$$\Rightarrow f \circ g(n) \Rightarrow 9n + 1 = 0 \Rightarrow n = -\frac{1}{9} \Rightarrow \boxed{a = -\frac{1}{9}}$$

$$f(m) = 9^n \quad g(m) = \log_p^n \quad f \circ g(m) \leq g \circ f(m)$$

$$f \circ g(n) = 9^{\log_9 n} = n^{\log_9 9} = n^1 \quad n^1 \leq \Gamma n \rightarrow n^1 - \Gamma n \leq 0$$

$$g \circ f(n) = \log_p^{q^n} = \log_p^{p^{rn}} = p^n \rightarrow n(n-r) \leq \dots$$

$$\frac{0}{+} \frac{r}{-} \frac{r}{+} \rightarrow n \in (0, r]$$

نکته: $\log(n) \neq n$ باید باشد. صواب $\log(n) \neq n$ است.

генератор

$$f\left(\frac{n^r - r}{n}\right) = n^r + n - \varepsilon - \frac{r}{n} + \frac{r}{n^r} \quad f(n) \geq 5 \quad (\text{Vollst.})$$

$$f\left(n - \frac{r}{n}\right) = \frac{n^r + \frac{r}{n^r} - \varepsilon + n - \frac{r}{n}}{\left(n - \frac{r}{n}\right)^r} \Rightarrow f(t) = t^r + t \quad \boxed{f(n) = n^r + n}$$

$$f(n) = \log_r^n \quad g(n) = \Lambda n - n^r \quad A \cap B \rightarrow \text{nicht leer} \quad (\text{Vollst.})$$

$$f \circ g(n) = \log_r^{-n^r + \Lambda n} \Rightarrow Df \circ g(n) = \underline{Dg}, \quad g(n) \in Df = (0, \Lambda)$$

$$B = \mathbb{R}_{\log} = (-\infty, r] \rightarrow A \cap B = (0, r]$$

$$\begin{array}{c} \downarrow \\ -n^r + \Lambda n > 0 \\ \frac{0}{-} + \frac{\Lambda}{+} = \end{array}$$

$$\mathbb{R}_{f \circ g(n)} = \mathbb{R} \xrightarrow{\sum B} A \cap B = (0, \Lambda) \rightarrow \boxed{\text{nicht leer}}$$

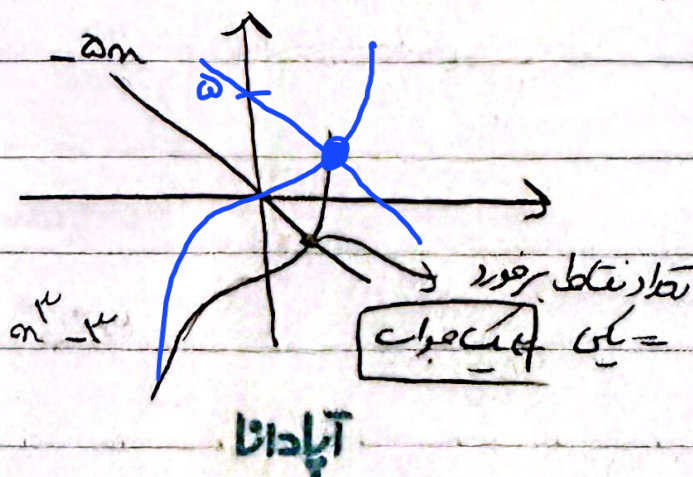
$$f \circ f(n) = 1 - r f^r(n) \quad g(n) = n - 1 \quad h(n) = n^r + r n + 1 \quad (\text{Vollst.})$$

$$h(g(n)) = f(n)$$

$$(n-1)^r + r(n-1) + 1 = n^r - r n^r + \omega n - r$$

$$f(f(n)) = 1 - r f^r(n) \Rightarrow f(n) = 1 - r n^r$$

$$n^r - r n^r + \omega n - r = 1 - r n^r \Rightarrow n^r + \omega n - r = 1 \Rightarrow n^r - r = -\omega n$$



Subject:

Year:

Month:

Date:

$$f(n) = n - \frac{\epsilon}{n} \quad g \circ f(n) = an^r + \epsilon n$$

(سوال ۱)

$$g(r) = 1 \quad a = \epsilon$$



$$g\left(n - \frac{\epsilon}{n}\right) = an^r + \epsilon n$$

(۲)

$$n - \frac{\epsilon}{n} = r \rightarrow n^r - \epsilon - \epsilon n = 0 \rightarrow (n - \epsilon)(n+1) = 0$$

$\downarrow \quad \quad \quad \downarrow$
 $\epsilon \quad \quad \quad \epsilon_{-1}$

$$n = -1 \rightarrow -a - \epsilon = 1 \Rightarrow a = -1 - \epsilon$$

$$n = \epsilon \rightarrow 4\epsilon a + 1 = 1 \Rightarrow a = 0 \quad \text{و } a \neq 0$$

$\checkmark$ $\times$
 غلط غلط