

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره کلاس: نام: B

$f(n) = \begin{cases} n^2 - 4 & ; n > a \\ 11n - 20 & , n \leq a \end{cases}$

(I) $a^2 - 4$ (II) $11a - 20$

$R_I = (a^2 - 4, \infty)$ $R_{II} = (-\infty, 11a - 20]$

$f^{-1}(y) = 4 \rightarrow f(4) = 2$

$\Rightarrow a = 4, f(4) = 2, k = 2, 12, k = 2, k = -1 \therefore f(n) = 3n - 1$

$f(v) = 3(v) - 1 = 11$

$f(f(m)) = f(3m - 1) = 3(3m - 1) - 1 = 9m - 3 - 1 = 9m - 4$

$A(a, a) \in f^{-1}$

$\rightarrow A(a, a) \in f(n) = \frac{an}{n-1}$

$n=a \quad f(a) = \frac{a^2}{a-1} = 2a \Rightarrow a^2 = 2a^2 - 2a \Rightarrow a^2 - 2a = 0 \Rightarrow a(a-2) = 0$

$a=0$ (X) $a=2$ (✓)

$f^{-1}(a) = \frac{a}{a-2} \rightarrow f^{-1}(a) = \frac{a}{a-2}$

$f\{(3,2), (4,1), (5,4), (6,3)\} \quad f^{-1}\{(1,5), (2,4), (3,1), (4,2)\}$

$f^{-1}(f(m)) = m \rightarrow f^{-1}(f(m)) = \{(5,5), (7,7), (2,2), (9,9)\}$

$f^{-1}(f(m)) = m \rightarrow f^{-1}(f(m)) = \{(3,3), (4,4), (7,7), (9,9)\}$

$f \circ g^{-1}(m) = f(g^{-1}(m)) = \{(2,2), (5,4)\} \quad D_{f \circ g^{-1}} = \{2, 4\}$

$g^{-1}(f(m)) = \{(3,4), (7,3), (9,1)\} \quad D_{g^{-1} \circ f} = \{3, 7, 9\}$

$h = \{(1,2), (3,4), (5,1), (5,1)\}, \quad g = \{(2,1), (4,3), (4,5)\} \rightarrow f \circ g = \{(2,4), (4,1), (4,5)\}$

$f \circ g^{-1} = f(g^{-1}(a)) = \{(1,4), (3,1), (5,0)\} \rightarrow D_{f \circ g^{-1}} = \{1, 3, 5\}, D_h = \{1, 3, 4, 5\}$

$\frac{h}{f \circ g^{-1}} = \{(1, \frac{2}{4}), (3, \frac{4}{1})\} = \frac{h}{f \circ g^{-1}} = \{(1, \frac{1}{2}), (3, \frac{1}{4})\}$

۳۰ : بجانب انتی مجددی، اسم شمس
تایم عدد گماندگ

$$n=1 \rightarrow y_{-k}$$

۱ - جانب شرقی
۲ - جانب غربی
۳ - جانب شمالی
۴ - جانب جنوبی

$$a = 1 \text{ g} - \frac{m}{\rho}$$

$$r_{xy} - r_{xz} = r_{yz} + 1$$

$$ny - ry = r + 1 - y(r - r) = 1 + rm$$

$$y^{-1} = \frac{1 + rm}{n - r}$$

$$y^{-1} = \frac{1 + rm}{n-r} y = \frac{nr}{n-r}$$

لے دیکھ کر بددہدہ ~~و~~ واریں پڑتا ہے۔

$$f(n) = |n-1| - |n-3|$$

$n=1$ ✓
 $n=2$

$$f(m) = r_{m-f} \quad \dots g = (m-f) \quad m \leq r_{g-f}$$

$$\Rightarrow \frac{n+f}{r} = r_y \cdot \frac{m+f}{r} \cdot y \Rightarrow \left[P^{-1}(m) = \frac{n+f}{r} R, [1, r] \right]$$

1	2	3
$x-1$	$x-1$	$x-1$
-5	$10-1$	1

$$f(n) = \begin{cases} r & n > r \\ r(n-r) & 1 \leq n \leq r \\ -r & 1 \leq n \end{cases}$$

$[a, b] \rightarrow$ حد انتہائی مقدار میں $\rightarrow [d, r]$

$$f(n) = \begin{cases} n^r + 1 & n \geq 1 \\ f_{n-1} & n \leq 0 \end{cases}$$

نام خانوادگی
مهای برادری طاهری

$$R_c = P_{c-1}$$

$$R_{1010} = [0, \infty) = \frac{D^1}{\text{abse } D^1}, [0, \infty)$$

تابع وارنیزه است (اکثر است)
 $\hookrightarrow R_{n,x} = [0, \infty) \rightarrow y = nx, \quad n = \frac{y}{x} \quad n = \sqrt{a-x} \rightarrow y = \sqrt{a-x}$
 $\hookrightarrow R_{x-1} = [0, \infty) \rightarrow y = x-1, \quad n = \frac{y}{x-1} \quad n = \frac{y+1}{x} \rightarrow y = \frac{x+1}{x}$

$f^{-1}(m) = \begin{cases} m+1 & m \geq 0 \\ \frac{m}{2} & m \leq -1 \end{cases}$

$$f(m) = m^r - \frac{(m+1)^r}{m+r} \rightarrow f(m) = \frac{m^r(m+r) - (m+1)^r}{m+r} = \frac{m^r + r m^{r-1} - (m^r + r m^{r-1} + \dots)}{m+r}$$

$$\frac{\cancel{3} + \cancel{r_m} - \cancel{m} - \cancel{r_m} - r_{m-1}}{m+r} = \frac{-r_{m-1}}{m+r} = -\frac{r_{m+1}}{m+r}$$

$$\frac{-4m-5}{m+4} = \frac{am+b}{cm+d}$$

$$a = -4 \quad c = 1$$

$$b = -5 \quad d = 4$$

$$f(m) = -\frac{r_{m+1}}{m_{m+1}} \Rightarrow f^{-1}(m) \rightarrow y = -\frac{r_{m+1}}{m_{m+1}} \Rightarrow y_{m+1} y = -r_{m+1}$$

$b = -r, f^{-1}(-r) = \frac{-r(-r) - 1}{-r + r} = \frac{0}{0} \quad (2)$

$f(m) = \frac{n}{n^m}$, در هر ی n ها می ، $f(n) - n \in [-1, 1]$ ،
تکین و تک ۱۲

$$y = \frac{n}{n_{21}} \rightarrow n = \frac{y}{y_{21}}$$

$$\boxed{1 - \epsilon_{n^+} \geq 0, \quad 1 - \epsilon_{n^+} \geq 1}$$

$$xy^r + x = y$$

$$\frac{1}{K} \geq n^r \rightarrow \frac{1}{K} \leq m \leq \frac{1}{K}$$

$$my^r - y + x = 0 \rightarrow y = \frac{1 \pm \sqrt{1 - 4mx}}{2m}$$

$$D_{f^{-1}} = \left[-\frac{1}{f}, 1\right] - \{0\}$$

$$a = m \quad b = -1 \quad c = c$$