

(سین عباسی)

1 4 0 3
25 M a y
2 0 2 4

خرداد ماه
شنبه
۱۶ ذی القعدة ۱۴۴۵

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$$\sqrt{x-4} = t \quad \left\{ \begin{array}{l} f(x) = \sqrt{t^2+4+4t} \rightarrow \sqrt{(t+2)^2} \rightarrow |t+2| \\ x = t^2+4 \end{array} \right. \quad (1)$$

$$\sqrt{x-4} \geq 0 \rightarrow t \geq 0 \rightarrow 2$$

$$|t+2| \rightarrow t+2$$

$$f(x) = t+2$$

$$g(x) = \sqrt{(t-2)^2} = |t-2|$$

$$\sqrt{x-4} \geq 0 \rightarrow |t-2| \rightarrow t-2$$

$$f+g \rightarrow t+2+t-2 \rightarrow 2t \rightarrow 2\sqrt{x-4} \rightarrow \frac{a+b}{c} \rightarrow \frac{0}{-4} \rightarrow \sqrt{x+4}$$

$$\frac{a+b}{c} = \left(-\frac{1}{2} \right)$$

$$\frac{f}{g} = \left(\frac{1}{2} \right)$$

$$\left. \begin{array}{l} f(x) \rightarrow -4 \\ g(x) \rightarrow 1 \end{array} \right\} \left. \begin{array}{l} f(0) \rightarrow \frac{4}{2} \\ g(0) = 4 \end{array} \right\} f \cdot \frac{f}{g} = (4) \quad (2)$$

$$\frac{g}{f} \Rightarrow \left\{ (0, 4) \text{ و } \left(-\frac{1}{2}, 1 \right) \right\}$$

نیاید باشند چون f رانده است

$$P_x = \left(\frac{4}{2}, \frac{4}{2} \right) \rightarrow \left\{ (-\frac{1}{2}, 4) \text{ و } (\frac{1}{2}, 2) \text{ و } (1, -1) \text{ و } (2, -2) \right\} \quad (3)$$

$$x^2 \leq \frac{1}{4} \rightarrow \left\{ (-2, 2) \text{ و } (-1, 1) \text{ و } (1, 1) \text{ و } (2, 2) \right\}$$

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ردیف	1	4	0	3
نام	26	M	a	y
تاریخ	2	0	2	4

$$c) \begin{cases} (1, 0) \\ (0, 1) \end{cases} \rightarrow \begin{cases} (1, 1) \\ (0, 0) \end{cases}$$

$$d) \frac{1}{g} \Rightarrow \{(1, 0) \text{ و } (0, 1)\}$$

$$e) \begin{cases} (1, 0) \\ (0, 1) \end{cases}$$

$$g(x) = 1 \rightarrow \begin{cases} h(1) = 1 + 1 = 2 \\ h(0) = 0 + 1 = 1 \end{cases}$$

$$h(x) = 1 \rightarrow \begin{cases} h(1) = 1 + 1 = 2 \\ h(0) = 0 + 1 = 1 \end{cases}$$

$$g(x) = 0 \rightarrow \begin{cases} h(1) = 1 + 0 = 1 \\ h(0) = 0 + 0 = 0 \end{cases}$$

$$f(x) = 1 \rightarrow \begin{cases} h(1) = 1 + 1 = 2 \\ h(0) = 0 + 1 = 1 \end{cases}$$

$$g(x) = 0 \rightarrow \begin{cases} h(1) = 1 + 0 = 1 \\ h(0) = 0 + 0 = 0 \end{cases}$$

$$f(x) = 0 \rightarrow \begin{cases} h(1) = 1 + 0 = 1 \\ h(0) = 0 + 0 = 0 \end{cases}$$

$$g(x) = 1 \rightarrow \begin{cases} h(1) = 1 + 1 = 2 \\ h(0) = 0 + 1 = 1 \end{cases}$$

$$f(x) = 1 \rightarrow \begin{cases} h(1) = 1 + 1 = 2 \\ h(0) = 0 + 1 = 1 \end{cases}$$

$$g(x) = 0 \rightarrow \begin{cases} h(1) = 1 + 0 = 1 \\ h(0) = 0 + 0 = 0 \end{cases}$$

نویس خاتمه و یادداشت

~~g~~ $g \rightarrow 1, \sqrt{2}, \sqrt{3}, \omega$ (4)

مثال

① $\rightarrow f(x) = 0$

$f(1) = e$

$f(x) = \sqrt{x}$ $f(x) = \sqrt{x}$ $f(x) = \sqrt{x}$

$h = \{(1,0), (2,\sqrt{2}), (3,\sqrt{3})\}$

ع) $n^r - r n^{r-1} + r n \rightarrow (n-1)^r + 1$ $(V^{1/2})$

$f = (n-1)^r + 1 \rightarrow x_1^r = R$

ب) $\frac{1}{n^r - r n^{r-1} + r n} \rightarrow \frac{1}{(n-1)^r + 1}$

$n n^0 \rightarrow g n^r - r g n^{r-1} + r g n = 1 = 0 \rightarrow g n^r - r g n^{r-1} = 0$

$g(g+1) n^0 \rightarrow g(g+1) n^0 \rightarrow \Delta = g^r + g$

$+ \frac{1}{1-g} + \frac{1}{g} \rightarrow (-\infty, -1] \cup (g_0, +\infty)$

ع) $\frac{-b}{r a} = r(b) \quad (r)^r = r(r+1) = r^2$

$\rightarrow (y, g, \infty)$

$\frac{-b}{r a} = r \quad (r)^r = r(r+1) = r^2 \rightarrow (-\infty, 1]$

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$a > 0$

$$x^2 - 2x - 2 > 0 \rightarrow [0, +\infty)$$

ج) $\frac{-b}{2a} \rightarrow \left(\frac{1}{2}\right) \rightarrow f\left(\frac{1}{2}\right) = -\frac{9}{4} < 0$

د) $4x - x^2 \rightarrow \frac{-b}{2a} \rightarrow 2 \rightarrow f(2) = 9 \rightarrow [0, 3]$

الف) R

(9

ب) R

ج) $[0, +\infty)$

د) $R [0, +\infty)$

الف) $R \setminus \{3\}$

(6

ب) $R \setminus \{4\}$