

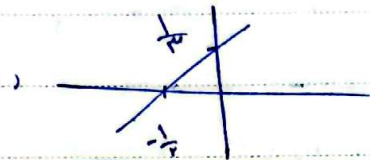
بازگشت

درجه دوم

بازگشت

$$f(x) = y, f(x) = x+1 \Rightarrow f^{-1}(x+1) = y \Rightarrow f^{-1} = \frac{x+1}{2} - 1$$

$$= \frac{x}{2} + \frac{1}{2} - 1 = \frac{x}{2} - \frac{1}{2}$$



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

$$\text{و) } y = x^2 - 2x + 1, x \in [1, +\infty) \quad - \frac{b}{2a} = 1 \rightarrow x = 1$$

$$\Rightarrow f^{-1}(x) = x(y-1)^2 + 1 \Rightarrow y-1 = \sqrt{x-1} \Rightarrow y = \sqrt{x-1} + 1$$

$$\text{و) } f^{-1} \in [1, +\infty)$$

$$\Rightarrow y = x^2 - 2x + 1, x \in [1, +\infty) \quad - \frac{b}{2a} = 1 \rightarrow x = 1$$

$$y = \sqrt{x-1} + 1, x \geq 1, f^{-1} \in [1, +\infty)$$

$$f(x) = x - \sqrt{x-1} \Rightarrow f(x) = x - \sqrt{x-1} \Rightarrow f(x) = x - \sqrt{x-1} \Rightarrow f(x) = x - \sqrt{x-1}$$

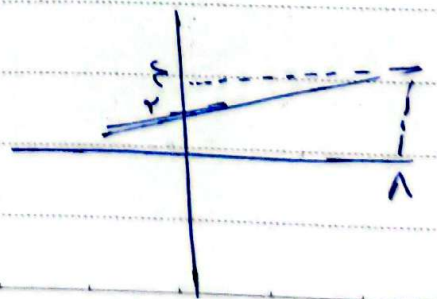
$$\Rightarrow f \cap f \in (-\infty, 1] \Rightarrow$$

$$\text{و) } f(x) = x - \sqrt{x-1} \Rightarrow f(x) = x - \sqrt{x-1} \Rightarrow f(x) = x - \sqrt{x-1}$$

$$x \in (-\infty, 1] \Rightarrow f(x) = x - 1 \Rightarrow f^{-1}(x) = \frac{1}{2}x + 1$$

$$\Rightarrow R_f(x) = (-\infty, 1] = R_{f^{-1}}(x)$$

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



$$y = \frac{x}{\sqrt{x^2-1}} \Rightarrow \frac{x}{\sqrt{x^2-1}} = \frac{x}{\sqrt{x^2-1}} = \frac{x}{\sqrt{x^2-1}} \Rightarrow \frac{x}{\sqrt{x^2-1}} = \frac{x}{\sqrt{x^2-1}} \Rightarrow \frac{x}{\sqrt{x^2-1}} = \frac{x}{\sqrt{x^2-1}}$$

$$\Rightarrow x_1 = \pm x_2 \Rightarrow x_1 x_2 = \pm 1$$

$$\text{Comp } h, y \text{ of } f^{-1} \Rightarrow x = \frac{y}{\sqrt{y^2-1}} \Rightarrow x = \frac{y}{\sqrt{y^2-1}} \Rightarrow x = \frac{y}{\sqrt{y^2-1}}$$

$$\Rightarrow y = \frac{\sqrt{1-x^2}}{x} \Rightarrow y = \frac{\sqrt{1-x^2}}{x} \Rightarrow y = \frac{\sqrt{1-x^2}}{x}$$

$$g(n) \begin{cases} n = \sum_{k=1}^n k & n \geq 1 \Rightarrow \frac{n(n+1)}{2} = 1 \\ n = \sum_{k=1}^n k & n \geq 1 \Rightarrow \frac{n(n+1)}{2} = 1 \end{cases}$$

$$f(n) = \frac{n(n+1)}{2} \Rightarrow f(n) = \frac{n(n+1)}{2} \Rightarrow f(n) = \frac{n(n+1)}{2}$$

$$f^{-1}(n) = \frac{\sqrt{1+4n}-1}{2} \Rightarrow f^{-1}(n) = \frac{\sqrt{1+4n}-1}{2} \Rightarrow f^{-1}(n) = \frac{\sqrt{1+4n}-1}{2}$$

$$f(m) = \frac{m \cdot f}{n \cdot m} \rightarrow f(m) = 1 \rightarrow \text{hom}_2 - 10 \rightarrow m_2 - 10 \rightarrow V$$

$$\rightarrow m_2 - 10 \rightarrow \underline{n \neq 10} \rightarrow f(-10) = 1 \rightarrow f^{-1} = f$$

$$y = f \circ f^{-1}(m) = f^{-1}(m) = n + \frac{m \cdot f}{n - 10} \rightarrow \text{if } \frac{m \cdot f}{n - 10} = 0$$

$$\Rightarrow m \cdot f = 0 \rightarrow \underline{m = \frac{f}{f}}$$

$$f(x-m) = f_j(m_f) \rightarrow g(m_f) = 1 - f(x-m) = g(m_f) = 1$$

$$\Rightarrow t = 1 - f(x-m) \quad f^{-1}(x-t) = x-m \Rightarrow f^{-1}(x-t)$$

$$\Rightarrow g^{-1}(t) = x \quad \text{if } g^{-1}(t) = x \quad \text{if } g^{-1}(t) = x \quad \text{if } g^{-1}(t) = x$$

$$\Rightarrow g^{-1}(x) = f^{-1}(x) = 1$$

$$y = \frac{\partial x - 10}{1 - x} \cdot \frac{m \cdot y}{x} \rightarrow y = \frac{\partial x - 10}{1 - x} \rightarrow y = \frac{\partial x - 10}{1 - x} \rightarrow 4$$

$$\frac{\text{der}}{\text{der}}, \frac{\partial(x-10) = 10}{1 - (x-10)} \cdot \frac{\partial x = 1}{x-1} \rightarrow \frac{\text{der}}{\text{der}}, \frac{\partial x = 10}{x-1} \rightarrow$$

$$\rightarrow \frac{\partial x = 10 - 10 \cdot 10}{x-1} \cdot \frac{m \cdot 10}{x-1} \rightarrow f(m) = \frac{m \cdot 10}{x-1} \rightarrow f^{-1}(m) = \frac{m \cdot 10}{x-1}$$

$$\Rightarrow m \cdot y = x \cdot y = 10 \rightarrow y(n-10) = 10 \rightarrow y = \frac{10}{n-10} = f^{-1}(m)$$

$$\frac{a \cdot n}{n-1} = \frac{m \cdot 4}{n-1} = a^2 + 2n-4 = (n-4)(n+1)$$

$$= m^2 + m-1 = a^2 + 2n-4 = -\frac{b}{a} = \frac{-(1-1)}{1} = 0$$

$$f(m) = m \cdot \xi[a] \quad \frac{\text{عدد}}{\text{بسط}} = g(m) = f(m) = m \cdot y = \xi(y) = 1$$

$$= y = 1 - \xi[a] = g(m) \quad \frac{\text{عدد}}{\text{بسط}} = [y] = \xi[m + \xi[a]]$$

$$\Rightarrow [y] = \xi[a] \Rightarrow f(m) = g(m) = m \cdot \xi[a] = m \cdot \xi[a] = \xi(\xi[a])$$