

شماره تلفن: ۱۱

سی و سیمانی

(۱)

الف) بازای m و (a, a) دو تابع f و f^{-1} در m از آنجا که f و f^{-1} متقابل هستند

$$f \circ f^{-1}(m), \quad 2m - \frac{c}{r} \rightarrow m, \quad 2m - \frac{c}{r} \Rightarrow \boxed{m + \frac{c}{r}} \quad (ب)$$

دل $\frac{c}{r}, m$ در f^{-1} و f وجود ندارد

(۲) معین تابع $f(m)$ که $f(m)$ است $f^{-1}(m)$ و $f(m)$ متقابل است

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

$$f^{-1}(m), \frac{-(m+r)m + r}{m-m} \Rightarrow f^{-1}(m), f(m) \rightarrow \quad (۳)$$

$$\frac{(-m-r)m + r}{m-m}, \frac{mm + r}{m+m+r} \rightarrow \frac{(-m-r)m^2 + r}{m+m+r} = \frac{mm^2 + r}{m+m+r} = \frac{mm^2 + r}{m+m+r} = \frac{mm^2 + r}{m+m+r}$$

$$(-2m-r)m^2 - (4m+9)m + 4m+9 = 0$$

$$\frac{1}{a} + \frac{1}{b}, \frac{a+b}{ab}, \frac{-\frac{b}{a}}{\frac{c}{a}}, -\frac{b}{c}, \frac{4m+9}{4m+9} \quad (۱)$$

$$f(n) = |n+5| - |n-2| \quad (C)$$

$$f(n) = \begin{cases} -n+5 & n \geq \frac{5}{2} \rightarrow \infty \\ n+2 & -\frac{5}{2} < n < \frac{5}{2} \\ n-5 & n \leq -\frac{5}{2} \end{cases}$$

$$f^{-1}(n) = \frac{n-5}{-1} \quad n \leq \frac{5}{2}$$

$$g(n) = rf(n) - 1 \cdot y \rightarrow g(n) \cdot y \rightarrow g^{-1}(y) \cdot n \quad (a)$$

$$n = f^{-1}\left(\frac{y+1}{r}\right) \rightarrow n = \frac{1}{r} f^{-1}\left(\frac{y+1}{r}\right)$$

$$g^{-1}(y) = \frac{1}{r} f^{-1}\left(\frac{y+1}{r}\right) \Rightarrow g^{-1}(n) = \frac{1}{r} f^{-1}\left(\frac{n+1}{r}\right)$$

$$\left. \begin{matrix} a = \frac{1}{r} & c = r \\ b = 1 & d = 1 \end{matrix} \right\} \rightarrow \frac{ac+d}{rb} = \frac{\frac{1}{r} + 0}{r} = \left(\frac{1}{r^2}\right)$$

$$f(n) = (\sqrt{n+1})^2 - 1 \quad ; \quad n \geq 0 \rightarrow$$

$$y = (\sqrt{n+1})^2 - 1 \rightarrow \sqrt{y+1} = \sqrt{n+1} \rightarrow \sqrt{n} = \sqrt{y+1} - 1$$

$$\rightarrow n = y+1 - 2\sqrt{y+1} \Rightarrow f^{-1}(n) = n+1 - 2\sqrt{n+1} \quad n \geq 0$$



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$$f(x), f^{-1}(x) \implies f \circ f(x), f \circ f^{-1}(x), x \implies x \quad (1.)$$

