

$$y = x + [x] \quad x = y + [y]$$

$$[y] = r(x) \quad [x] = r(y)$$

$$[y] = \frac{r}{[x]}$$

$$\frac{r}{[x]} = r(x)$$

$$\frac{1}{[x]} = [x]$$

$$[x] = 1 \quad [y] = -1$$

$$x = rx - \frac{r}{r}$$

$$x = 1/5$$

بر تابع از عدد زوج تا عدد فرد

بعد است یعنی $\frac{r}{r} = 1$ غرض از اینست که جواب صحیح است!

$$f \circ f^{-1} = f^{-1} \circ f$$

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

$$f \circ f^{-1}(x - \sqrt{4}) = x - \sqrt{4}$$

$$f \circ f^{-1}(x - \sqrt{4}) = f^{-1}(f(x - \sqrt{4}))$$

$$\frac{5x - \sqrt{4}a + 3}{f(x - \sqrt{4}) + -a}$$

$$rx = -b$$

$$x = \frac{-b}{r}$$

$$a = \frac{a}{f}$$

$$-\frac{b}{f} = \frac{a}{f}$$

$$a = b$$

$$f(x) = \frac{r+mx}{(m+r)+x} = x$$

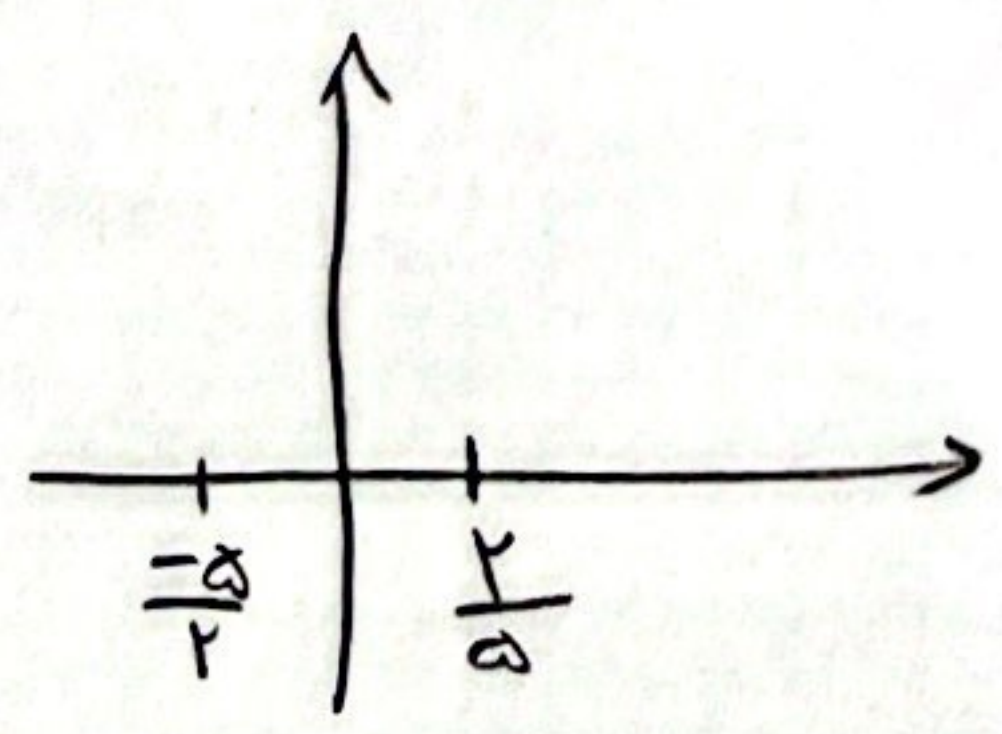
$$(m+r)x + x^2 = mx + r$$

$$x^2 - r + rx = 0 \rightarrow x + B = \frac{1}{a} - 3$$

$$\frac{1}{a} + \frac{1}{b} = \frac{a+B}{aB} = \frac{-1}{-r}$$

$$aB = \frac{r}{a} = r$$

$$y = |rx + a| - |ax - r|$$



$$-rx - a + rx + r = -a + r$$

$$x \rightarrow \left(\frac{r}{a}, +\infty\right)$$

$$y = -rx + r$$

$$y = -rx + r$$

$$x = \frac{y-r}{-r}$$

$$y = -x + r$$

$$y = \frac{-x}{r} + \frac{r}{r}$$

$$f^{-1}(x) = a$$

$$f^{-1}(a) = cx$$

$$g(x) = xa - 1$$

$$g^{-1}(xa - 1) = x$$

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

$$ra - 1 = x$$

$$a = \frac{1+x}{r}$$

$$f^{-1}(a) = g^{-1}(ra - 1)$$

$$f^{-1}(a) = g^{-1}(ra - 1)$$

$$f^{-1}(a) = g^{-1}(ra - 1)$$

$$\frac{r}{r} = 1$$

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

$$D_{f^{-1}} = R_f = [0, +\infty)$$

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

$$\sqrt{x+1} = \sqrt{y} + 1$$

$$\sqrt{x+1} - 1 = \sqrt{y} \rightarrow y = x + 1 + 1 - 2\sqrt{x+1} = x + 2 - 2\sqrt{x+1} \rightarrow [0, +\infty)$$

در این نقطه

$$x = x - 1 + 2^x$$

$$2^x = 1$$

$$x = 0$$



اعداد صحیح [تعداد 0]

تعداد صحیح 0

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

$$f^{-1}(x) \geq x \quad f^{-1}(f(x)) \quad y(y^2 + \epsilon)$$

$$x \geq f(x) \rightarrow x \geq x^2 + \epsilon x$$

$$x = (-\infty, 0]$$

$$0 \geq x^2 + \epsilon x$$

$$0 \geq x(x^2 + \epsilon)$$

$$y = -x + \sqrt{x+4} \rightarrow g(x) = f^{-1}(x+4)$$

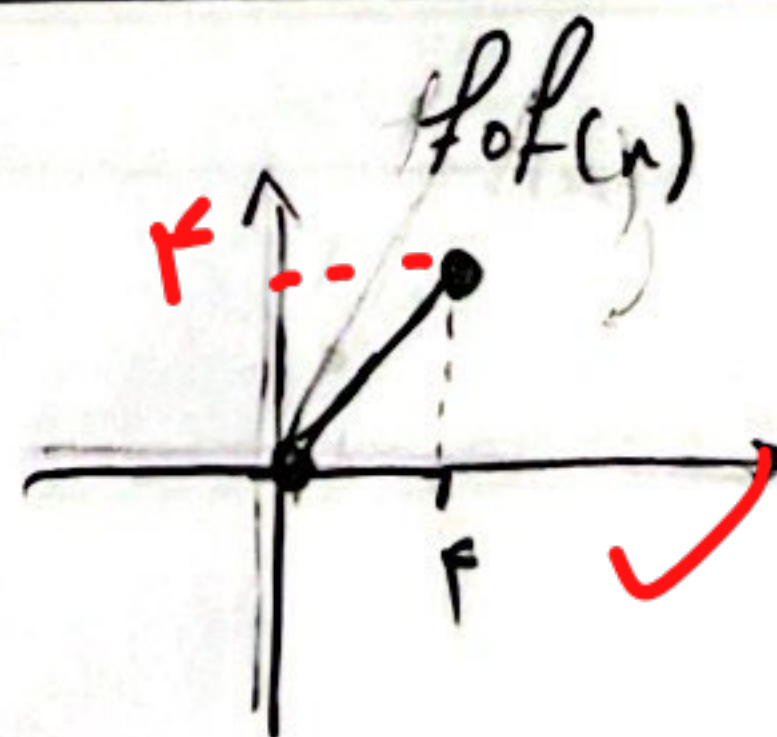
$$f^{-1}(x) = -y\sqrt{y+4} \quad g(x) = x - 4$$

$$f^{-1}(x) \xrightarrow{\text{فرض کنیم}} f^{-1}(x) \xrightarrow{\text{فرض کنیم}} f^{-1}(x+4)$$

$$g(x) = f^{-1}(x+4) = x - 4 \quad f \circ f^{-1}(x+4) = f(x-4)$$

$$x+4 \sqrt{y} = (x-4)\sqrt{x+1} \rightarrow \sqrt{x} \geq 1 = \sqrt{x+1} \leq \sqrt{x+1}$$

$$x^2 + 4x = 1 + 4 \rightarrow x = -\frac{4}{2} = -2$$



$$f \circ f^{-1}(x) = \left(2 - \sqrt{(2 - \sqrt{x})^2} \right)^2 = x$$

$$\xrightarrow[\text{به نیناسز}]{\text{قرینه نسبت}} f^{-1}(n) \xrightarrow[\text{به چپ}]{\text{۴ واحد}} f^{-1}(n+4)$$

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$$g(n) = f^{-1}(n+4) = n-3 \xrightarrow[\text{به راست}]{\text{از دو طرف}} f \circ f^{-1}(n+4) = f(n-3)$$

$$n+4 = -(n-3) + \sqrt{n+1} \rightarrow 2n+1 = \sqrt{n+1} \quad \underline{\text{توان}}$$

$$4n^2 + 3n = 0 \rightarrow \begin{cases} n=0 \\ n=-\frac{3}{4} \end{cases} \quad \begin{array}{l} \text{خفتن} \\ \text{جواب رادیکال} \\ \text{رو منفر مینه} \end{array}$$