

$y = u + [-] \Rightarrow f^{-1}(u) \Rightarrow [y] \text{ و } [u + [-]] \text{ و } [u] \Rightarrow \frac{y}{r} \text{ و } \frac{u}{r} \text{ و } \frac{y - u}{r}$
 $[u] \text{ و } y - u \quad f^{-1}(u) \text{ و } u - \frac{[u]}{r} \quad \frac{y - u}{r} \text{ و } \frac{y}{r} - \frac{[u]}{r}$
 $\frac{y}{r} \text{ و } \frac{y - u}{r} \quad \frac{y}{r} \text{ و } \frac{y - u}{r} \quad \frac{y}{r} \text{ و } \frac{y - u}{r}$
 $\frac{y}{r} \text{ و } \frac{y - u}{r} \quad \frac{y}{r} \text{ و } \frac{y - u}{r} \quad \frac{y}{r} \text{ و } \frac{y - u}{r}$
 $f(f^{-1}(u)) = f(u - \frac{[u]}{r}) = u - \frac{[u]}{r} + [u - \frac{[u]}{r}] = u - \frac{[u]}{r}$

$a = \frac{b}{c} \Rightarrow \frac{a}{c} \Rightarrow \frac{b}{f} \Rightarrow \frac{a}{f} \Rightarrow \frac{b}{f} \Rightarrow \frac{a}{f}$

$\frac{m a + r}{a + m + r} \Rightarrow a \Rightarrow m a + r = u (m + r) \Rightarrow a^2 + r a = u^2$
 $\frac{1}{a} + \frac{1}{b} \Rightarrow \frac{a+b}{a b} \Rightarrow \frac{r}{-r} \Rightarrow \frac{1}{r}$

$|r a + d| - |u a - r| \quad \begin{cases} a > \frac{r}{d} & \frac{-r a + v}{v a + r} \\ \frac{r}{d} > a > \frac{-v}{r} & \frac{v a + r}{v a + r} \end{cases} \quad \text{نزدی}$

$\Rightarrow f_{(y)} = \frac{r a + v}{r} \rightarrow \begin{cases} f_{(r)} = \frac{-a + v}{r} \\ D_{f^{-1}} = \frac{r a + v}{r} \end{cases}$

$D_f, n \geq 0$

$y = x + \sqrt{m} s y$

$y - x = \sqrt{m} s y$

$(y-x)^T s = (x + \sqrt{m} s y - x)^T s = (\sqrt{m} s y)^T s = \sqrt{m} s^T y = \sqrt{m} s^T (x + \sqrt{m} s y) = \sqrt{m} s^T x + m s^T s y = \sqrt{m} s^T x + m \|s\|^2 y = \sqrt{m} s^T x + m y$

$D_f[0, \infty)$

$R_f[0, \infty)$

$D_f^{-1}[0, \infty)$

$$a_n = 1 + r^n a_0 \quad r = 1.50 \quad r^n = 1.5^n \rightarrow 4.50$$

$$\begin{aligned} f^{-1}(a) &> a & f^{-1}(a) &< a \\ f^{-1}(a) &> a & f(a) &> a \Rightarrow a > 0 \rightarrow f(a) > 0 \\ \Rightarrow & a \geq r \Rightarrow f^{-1}(a) > a \end{aligned}$$

$$f_{(n)}^{-1}(x) = f_{(n)}(x - \alpha + \sqrt{\alpha} + i s y) = (y + \beta)_s \alpha + i s y \quad y^r + \alpha^r / r n y \rightarrow y^r + i s$$
$$\alpha + \beta_1(1y-1) - i s - y^r$$

$$\sqrt{f(n)} = r - \sqrt{n}$$

$$f(n) = (r - \sqrt{n})^2 = r^2 - 2r\sqrt{n} + n \quad f(f(n)) = f(n - (\sqrt{n} + \epsilon)) = (r - r + n)^2 = n^2$$

