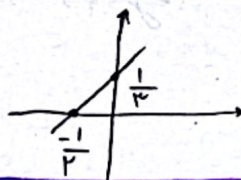


$$f(x) = \frac{x-1}{r} \quad f^{-1}(x) = \frac{x+1}{r}$$



$$S = \frac{1}{r} \times \frac{1}{r} = \left(\frac{1}{r}\right)^2$$

$$y = x^2 - rx + r = (x-1)^2 + r - 1 \quad f^{-1}(x) = \sqrt{x-r} + 1 \quad D_{f^{-1}} = [r, +\infty)$$

$$y = x^2 - rx + r = (x-1)^2 + 1 \quad f^{-1}(x) = \sqrt{x-r} + 1 \quad D_{f^{-1}} = [r, +\infty)$$

$$f(x) = rx - \sqrt{14 - rx} \quad f^{-1}(x) = \begin{cases} x+r & x \geq r \\ rx-r & x < r \end{cases}$$



$$f^{-1}(x) = \frac{1}{r}x + 1 \quad S = \frac{rx}{r} = r$$

$$y = \frac{x}{\sqrt{x^2 - a}} \rightarrow x = \frac{y}{\sqrt{y^2 - a}} \quad x^2 = \frac{y^2}{y^2 - a} \quad y^2 = \frac{ax^2}{x^2 - 1} \quad y = \pm \sqrt{\frac{ax^2}{x^2 - 1}}$$

$$g(x) = \begin{cases} x^2 - rx + k & x \geq r \\ -x^2 + 4x + rk & x < r \end{cases} \rightarrow \begin{cases} k-r & x \geq r \\ rk+1 & x < r \end{cases} \quad k-r \geq rk+1 \quad (k \leq -9)$$

$$f(x) = rx + |x| = \begin{cases} rx & x \geq 0 \\ rx & x < 0 \end{cases} \rightarrow f^{-1}(x) = \begin{cases} \frac{x}{r} & x \geq 0 \\ \frac{x}{r} & x < 0 \end{cases}$$

$$\begin{aligned} x \geq 0 &\rightarrow an + bn = (a+b)n = \frac{n}{r} \quad (a+b) = \frac{1}{r} \quad a = \frac{r}{\lambda} \quad ab = \frac{-r}{4f} \\ x < 0 &\rightarrow an - bn = (a-b)n = \frac{n}{r} \quad (a-b) = \frac{1}{r} \quad b = \frac{-1}{\lambda} \end{aligned}$$

$$f(x) = \frac{rx + r}{x + r} \quad \frac{10}{r+m} = -10 \quad m = \frac{-r}{r} \quad f(m) = \frac{rm + r}{m - \frac{r}{r}}$$

$$y = x + f^{-1}(x) = x + \frac{rx - 1}{rx - 9} \rightarrow x + \frac{rx - 1}{rx - 9} = x \quad rx - 1 = 0 \quad x = \frac{1}{r}$$

$$f^{-1}(x) \Rightarrow x = \frac{ry + r}{y - \frac{r}{r}} \quad y = \frac{rx - 1}{rx - 9}$$

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

$$f^{-1}(-x) = m \xrightarrow{\text{...}} f(m) = -x$$

$$1-x = m$$

$$1 - g\left(\frac{x}{1-x}\right) = -x \quad g\left(\frac{x}{1-x}\right) = 1 \rightarrow g^{-1}(1) = \frac{x}{1-x}$$

$$y = \frac{\delta x - 1^x}{1-x}$$

$$-y = \frac{-\delta x - 1^x}{1+x} \rightarrow y = \frac{\delta x + 1^x}{x+1}$$

$$y = \frac{\delta(x-1) + 1^x}{(x-1)+1} - 1 = \frac{\delta x + 1^x}{x-1} - 1$$

$$\frac{\delta x + 1^x}{x-1} - 1 = \frac{\delta x - 1^x}{1-x}$$

$$1^x - 1^x + 1^x = 1^x - 1^x + 1^x \quad (x-1)^x = 1^x$$