

(حصر صالح حصری)

$$a + |n| \rightarrow \underline{a + 1 = b}$$

$$b \sqrt[n]{r}$$

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

$$a = \frac{1}{r} \rightarrow \underline{a + b = 2}$$

(1)

در صغر نشین نابری است

$$g(n) = \frac{|n-r| + \sqrt{rn}}{r \sqrt[n]{r}} = \frac{|n-r|}{r \sqrt[n]{r}} + \frac{\sqrt{rn}}{r \sqrt[n]{r}} = \frac{1}{r} P(n) + \sqrt[n]{r} n^{-1/r}$$

$$g'(n) = \frac{1}{r} P'(n) - \frac{\sqrt{r}}{r} n^{-\frac{1}{r}-1}$$

$$\rightarrow P'(n) - r g'(n) = \left(\frac{\sqrt{r}}{r} \right) \checkmark$$

$$b n + c$$

$$\frac{1}{n}$$

$$\rightarrow b n + c = \frac{1}{n} \rightarrow \underline{a^r b + c n = 1}$$

$$\rightarrow b = \frac{-1}{a^r} = a^r b = -1$$

$$\underline{c a = r}$$

(2)

$$b$$

$$\rightarrow \cdot$$

$$b + (n-a)^m \rightarrow m(n-a)^{m-1}$$

$$\rightarrow \underline{m=1}$$

(4)

$$g'(\sqrt[n]{r}) \cdot P'(g(\sqrt[n]{r})) = P'(g(\sqrt[n]{r}))$$

(5)

$$g(n) = \frac{1}{r n^r}$$

$$P(n) = \frac{1}{r \sqrt[n]{r n}} \Rightarrow P \circ g = n$$

$$P \circ g'(n) = n \rightarrow P \circ g'(\sqrt[n]{r}) = n \rightarrow P \circ g' = 1$$

$$\frac{P'}{f(r)} = \frac{P}{f(r)+r} \rightarrow y = -ax - a$$

(9)

$$-a = -ra - a + r \quad f(r) = \frac{-ra - a}{-1/r} \rightarrow f(r) \cdot \frac{1}{r} - a = -\frac{1}{r}$$

$$ra = -r \quad a = -\frac{1}{r} \rightarrow f'(r) = -\frac{1}{r} \quad -\frac{1}{r} \cdot \frac{1}{r} = \frac{1}{r^2}$$

$$f \circ g(n) = g'(n) \cdot f'(g(n)) = -\sqrt{r} \times 4\epsilon \rightarrow \frac{4\epsilon \sqrt{r} - \sqrt{r}}{-\frac{1}{r} \sqrt{r}} = r \quad (17)$$

$$g(n) = (n^r - 1)^{-1/r} = -\frac{1}{r} (n^r - 1)^{-1/r} \times r n = -\frac{1}{r} \times \frac{1}{r} \times r n = -\sqrt[n]{n} = -\sqrt[n]{n}$$

$$g\left(\frac{r}{n}\right) = r \rightarrow f(n) = |4n^r + 1| \rightarrow f'(n) = 4rn \rightarrow f'(r) = 4\epsilon n$$

$$g(n) = f(n+1) + f(rn+1) =$$

(18)

$$g'(n) = f'(n+1) + r f'(rn+1) = f'(1) + r f'(r) = \frac{1}{r} + r \times \frac{1}{r} = 2 \quad (19)$$

$$\frac{P}{f(\Delta-n)} - r \frac{P}{f(\Delta-n)+r} \xrightarrow{\text{hop}} \frac{r \frac{P}{f(\Delta-n)} + \frac{r \Delta}{r} \frac{P}{f(\Delta-n)} - r \frac{P}{f(\Delta-n)}}{\Delta - rn} = \frac{r \Delta}{r^2} =$$

(9)

$$\frac{P}{f(n)} = (n-r) \sqrt[n+r]{n+r} \xrightarrow{f'(n)} 1 \times \sqrt[n+r]{n+r} + (n-r) \times \frac{1}{r \sqrt[n+r]{(n+r)^r}} =$$

$$4y = 3x + 1 \rightarrow y = \frac{1}{4}x + \frac{1}{4} = m = \frac{1}{4}$$

$$y' = 3x - r$$

(10)

$$3x - r = \frac{1}{4} \rightarrow 3x = \frac{1}{4} + r \Rightarrow x = \frac{1}{12}$$

$$y = \frac{1}{4}x + \frac{1}{4} \rightarrow \frac{1}{48} + \frac{1}{4} = \frac{r \sqrt{r} + r}{r^2} =$$

$$\left(\frac{1}{4}, \frac{r+1}{r^2}\right) \rightarrow \text{نقطة التقاطع}$$

نقطة التقاطع