

17120

السيد محمد

$$f(u) = (u+1)^r + (ru-1)^r + mu^r + nu + mn$$

$$10u^r + mu^r - \epsilon u + nu + r + mn$$

$$m+n+p+k$$

$$-10 + \epsilon - 11 + 10 = -\frac{1}{2}$$

$$m = -10 \quad n = +\epsilon$$

$$g(u) = \{(\epsilon, -10), (\epsilon, p+1), (p+r, -1), (-r, p+k)\}$$

$$p = -11$$

$$p+1 = -10$$

$$p+k = -1$$

$$-11+k = -1 \quad |k = +10|$$

$$\text{الف) } y = \sqrt{\frac{u-r}{(u^r-\epsilon)(u^r+r)}} \rightarrow r$$

$$-\frac{r}{\epsilon} + \frac{r}{\epsilon} +$$

$$Df: (-r, +\infty) - \{r\}$$

$$Df: \mathbb{R} - (-r, 2r]$$

$$\text{ب) } f(u) = \frac{ru^r+1}{\epsilon-r(u)}$$

$$\epsilon-r(-u) \neq 0$$

$$r(-u) \neq \epsilon$$

$$-r < u < -r \Leftrightarrow [-u] \neq r$$

$$\text{الف) } y = \sqrt{x(u^r-1)} = \frac{-1}{r} + \frac{1}{r} +$$

$$u \geq 1 \quad -1 \leq u \leq 0$$

$$\sqrt{|x|+u} \rightarrow u+|u| > 0 \Rightarrow \mathbb{R}^+$$

$$Df: [1, +\infty)$$

$$\text{If } u > 0 \Rightarrow ru \checkmark$$

$$\text{If } u < 0 \Rightarrow 0 \times$$

$$\text{ب) } f(u) = \sqrt{-u^r+|u-r|} \Rightarrow u \geq 0 \quad -u^r+u-r \geq 0 \quad \Delta < 0$$

أيضاً

$$u \neq \pm 1 \quad |u|-1$$

$$|u| \leq 1 \quad -u^r-u+r > 0 \quad \text{جميع الحالات}$$

$$Df: [-r, 0] - \{-1\}$$

$$Df: [-r, 1] - \{-1\}$$

s.a.m

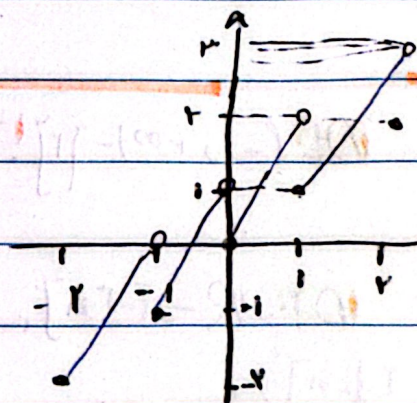
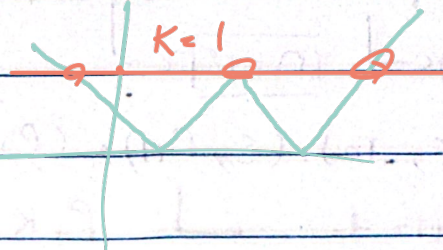
$$||n-r|-1| = K$$

$$|n-r| = K+1$$

$$|n-r| = 1$$

$$|n-r| = -K+1$$

$$n=r \quad n=r+1$$



$$- < n < 1 \Rightarrow y, r_n$$

$$y = r_n - [n] \quad \text{--- a}$$

$$- < n < r \Rightarrow y, r_{n-1}$$

$$- 1 < n < \cdot \Rightarrow y, r_{n+1}$$

$$- r < n < -1 \Rightarrow y = r_{n+r}$$

$$\text{" } \mu \text{ } | \underline{a = -1} | \Rightarrow \frac{(n-r)(n-1)}{(n-r)} + b \Rightarrow f(n) = \frac{(n-r)(n-1) + b}{n-r} \quad \text{--- b}$$

$$\text{" } \mu \text{ } | \underline{a = -r} | \Rightarrow \frac{(n-r)(n-1)}{(n-r)} + b = x \Rightarrow \underline{b = +1} \rightarrow a-b = -\varepsilon$$

$$\frac{n^r + r n^r - n - r}{n^r - 1} = n + c \quad \frac{n^r(n+r) - (n+r)}{n^r - 1} = \frac{(n^r - 1)(n+r)}{(n^r - 1)(c-r)} \quad \text{--- v}$$

$$\begin{aligned} n=1 \Rightarrow n+r &= r = \frac{a+r}{1+b} & r+rb &= a+r \\ n>-1 \Rightarrow n+r &= 1 = \frac{r-a}{b-1} & b-1, r-a & \\ a &= \frac{r}{r-1} & \underline{a, +b/r} & \\ b+c &= r + \frac{1}{r} = \frac{a}{r} \end{aligned} \quad \begin{cases} a-rb=1 \\ +a-b=-r \\ -\varepsilon b, -r \end{cases} \quad \underline{b = +1/r}$$

$$r \neq g(1), k$$

$$r \sqrt{f - \frac{ka}{r}} + r k - r - \sqrt{b - \varepsilon} - r/k = k$$

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

$$b = \varepsilon$$

$$rk, -r$$

$$\underline{k = -1}$$

$$ra - \frac{b}{r} \neq k, \varepsilon - r + 1, \underline{r}$$

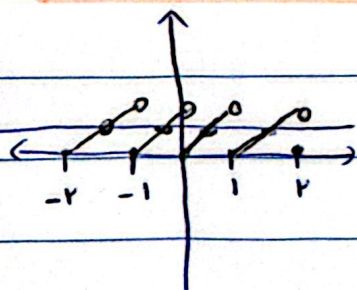
$$f = g(r) = 4\sqrt{r} \quad Df.g = [-1, \infty] \quad g(u) = \sqrt{u+r}, f(u) = \sqrt{m-u} + n$$

$$| -g(r) \quad \begin{array}{l} Df \cap Dg \\ u \geq -1 \end{array} \quad \begin{array}{l} u \leq v \\ m-u \geq 0 \end{array} |$$

$$f(r) = n+r+r - r\sqrt{r} = 4\sqrt{r}$$

$$n = 4\sqrt{r} - \varepsilon - r$$

$$m+n = 4\sqrt{r} - \varepsilon + v = 4\sqrt{r} + 0$$



$$\Rightarrow \text{المجال } \varepsilon$$

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