

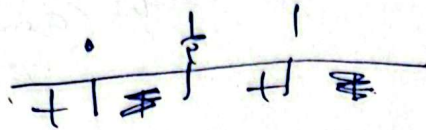
بالرغم

نفسه من غير عبد الوالي

$$f(n) = \sqrt{\frac{n^2 - m(n-1)}{n(n-1)}}$$

$$\frac{-m(n-1)}{n(n-1)} > 1$$

①



$$\Rightarrow D = (-\infty, 0) \cup [1, 2)$$

$$\frac{\frac{-n^2}{n(n-1)}}{\frac{f(n)}{(n-1)(m(n-1))}} \rightarrow D \subseteq \mathbb{R} - \left\{ -2, -1, 0, 1, 2, -\frac{5}{2} \right\}$$

②

$$\left(\left(\frac{1}{p} \right)^q - a \right) (r^2 - t^n) > 0 \quad \frac{-r}{r} \left[- \frac{r}{r} \right] \frac{d}{r}$$

$$D \subseteq (-\infty, -2] \cup \left[\frac{5}{2}, +\infty \right)$$

$$\begin{aligned} \neg) \quad n < 1 &\rightarrow n \geq 1 \\ n &\in \sqrt{n} > 1 \rightarrow \sqrt{n} \leq 2 \rightarrow n \leq 4 \end{aligned} \Rightarrow D = [1, 4)$$

③

$$\frac{(n-2)(n+1)}{n^2 - n - 2} > 0 \quad \frac{-1}{1-1} \rightarrow (-1, 1) \cup (2, +\infty)$$

$$n^2 - 1 > 0 \rightarrow n > 1, n < -1 \rightarrow (-\infty, -1) \cup [1, +\infty)$$

$$\sqrt{n^2 - 1} \neq 1 \neq \dots \rightarrow \text{هذه الشروط}$$

$$D = (-\infty, -1) \cup (2, +\infty)$$

④

$$-p - p a_1 r^2 \leq a \leq -\frac{1}{r}$$

$$\frac{c}{a} \leq u m_e \rightarrow -r \leq -r m \rightarrow b \leq \frac{r}{r}$$

$$a + b \leq 1$$

⑤

$$f(n) = n \begin{cases} m^2, n \geq 1 \\ m^2, n < 1 \end{cases} \Rightarrow \begin{cases} \text{① } m(1) > n, 1 \leq n_2 \\ \text{② } m(1) < n, 1 \leq n_2 \end{cases}$$

$$I \cup (I) \Rightarrow [-2, +\infty)$$

$$f(a) = a - t + a \quad | \quad f(a+t) = a - t$$

$$1 \cdot a = -1 \quad (a = -1)$$

$$f(n) = \sqrt{n} + \frac{1}{\sqrt{n}} + 1 \Rightarrow f(n) = \sqrt{n + \frac{1}{n} + 1} + 1$$

$$f(x) = \frac{1}{x} \Rightarrow \text{مقلوب}$$

$$\sqrt{x+y} + \frac{1}{\sqrt{x+y}} + \sqrt{x-y} + \frac{1}{\sqrt{x-y}} + 1 \Rightarrow f(\sqrt{x+y}) + f(\sqrt{x-y})$$

$$\sqrt{x+y} + \sqrt{x-y} + 1 = f(\sqrt{y})$$

$$\begin{cases} f(n) - f(n-1) = n^2 - n \\ f(n) - f(n-1) = n^2 - n \end{cases} \Rightarrow \begin{cases} f(n) - f(n-1) = n^2 - n \\ f(n) - f(n-1) = n^2 - n \end{cases}$$

$$f(n) = -n^2 - \frac{1}{2}n$$

$$-2f(n) = n^2 + n$$

$$n = -1 \Rightarrow f(-1) = 1 + 1 = 2$$

$$n = 0 \Rightarrow f(0) = 1 - 1 = 0$$

$$\Rightarrow 0 + 1 = 1 - 1 \Rightarrow 1 = 0$$

$$\Rightarrow f(1) = 1 + 1 = 2 \Rightarrow f(1) = 2$$

$$f(-1) = \frac{1}{-1} \Rightarrow f(-1) = -1$$