

$$a-2=0 \rightarrow a=2$$

$$\sqrt{2n+b} \rightarrow \frac{3=n}{2} \quad 4+b=0 \rightarrow b=-4$$

$$\Delta \leq 0 \rightarrow f = -1 + em^2 \rightarrow -1 + em^2 \leq 0$$

$$-e(1-m^2) \leq 0 \quad \frac{-1}{+4} \quad \frac{+1}{-4}$$

$$[-1, 1]$$

اختلاف $\rightarrow$ (2)

$$f - n^2 \geq 0 \rightarrow f \geq n^2 \quad (2 \geq n \geq -2)$$

$$[n] + [-n] + 1 \neq 0 \rightarrow \text{if } n \in \mathbb{Z} \checkmark$$

$$(2, 1, 0, -1, 2) \rightarrow \text{همه صحیح}$$

$$\text{الف) } n^3 + 3n^2 \geq 0 \rightarrow n^2(n+3) \geq 0 \quad \frac{-3}{-4} \quad \frac{+1}{+4}$$

$$D_f \rightarrow [-3, +\infty)$$

$$\text{ب) } \frac{(n-1)(n+1)n^2(n-3)}{n^3-1} \geq 0$$

$$\frac{-1}{+4} \quad \frac{+1}{-4} \quad \frac{+1}{-4} \quad \frac{+3}{-4}$$

$$D_f = (-\infty, -1] \cup [3, +\infty) \cup \{0\}$$

$$\text{الف) } |n-2| - 3 \geq 0 \rightarrow |n-2| \geq 3 \rightarrow n-2 \geq 3 \rightarrow n \geq 5$$

$$D_f = (-\infty, -1] \cup [5, +\infty)$$

$$n-2 \leq -3 \rightarrow n \leq -1$$

$$\text{ب) } f - |2-n| \geq 0 \rightarrow f \geq |2-n| \rightarrow -f \leq 2-n \leq f$$

$$D_f = [-2, 4] \quad 4 \geq n \geq -2 \rightarrow -4 \leq -n \leq 2$$

الف) $1 - 2 n \geq 0 \quad \geq n n \xrightarrow{\text{if } n \leq 0} 1 \geq -n^2 \checkmark$ $\xrightarrow{\text{if } n > 0} 1 \geq n^2 \rightarrow -1 \leq n \leq 1$ $D_f = (-\infty, 1]$ ب) $3 - n - 2 > 0$ $3 \geq n - 2 \rightarrow -3 \leq n - 2 \leq 3 \rightarrow -1 \leq n \leq 5$ $D_f = [1, 5] - \{3, 4\}$	٦
الف) $\cos n \neq 0 \rightarrow \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$ ب) $\cos n - 1 \neq \frac{1}{f} \rightarrow \cos n \neq \frac{1}{f} \rightarrow \mathbb{R} - \left\{ \frac{k\pi}{f}, \frac{k\pi + \pi}{f} \right\}$	٧
الف) $n+1 - n+3 \geq 0 \rightarrow n+1 \geq n+3$ $n^2 + 1 + 2n \geq n^2 + 9 + 6n \rightarrow n^2 - 2n - 8 = 0 \rightarrow n^2 - 2n - 8 \geq 0$ $D_f = \mathbb{R} - \left\{ 2, -\frac{4}{3} \right\}$ $2, -\frac{4}{3} \leftarrow (n-4)(n+2) \geq 0$ ب) $n+1 \geq n+3 \rightarrow n^2 + 1 + 2n \geq n^2 + 9 + 6n \rightarrow n^2 - 2n - 8 \geq 0$ $D_f = (-\infty, -\frac{4}{3}] \cup [2, \infty)$ $\frac{-2 \pm \sqrt{4 + 32}}{2} = \frac{-2 \pm 6}{2} = 2, -4$	٨
$n-1 > 0 \rightarrow n > 1$ $\log_a^{n-1} > 0 \rightarrow n-1 > 1 \rightarrow n > 2$ $D_f = (1, \infty]$ $\log_{a/a}^{\log_a^{n-1}} > 0 \rightarrow \log_a^{n-1} < 1 \rightarrow n-1 \leq a \rightarrow n \leq 4 \rightarrow n \leq 4$	٩
الف) $(\cos n + 1) \geq 0 \rightarrow \cos n \geq -\frac{1}{f} \quad D_f = \left(k\pi - \frac{\pi}{f}, k\pi + \frac{\pi}{f} \right)$ ب) $\frac{n-1}{n+1} > 0 \quad \frac{-1}{+1} < \frac{1}{+1}$ $\log \frac{n-1}{n+1} > 0 \rightarrow \frac{n-1}{n+1} \geq 1 \quad \frac{n-1-x-1}{n+1} > 0 \rightarrow n+1 < 0$ $D_f \rightarrow (-\infty, -1)$ $n < -1$	١٠