

۲. آزمون‌های نمره‌ای

نمونه‌ای از تست‌ها

باز هم رتبه‌ای
کلیف

①

$[a=p] \rightarrow$ (تستی) (درجه‌های مختلف از یک) (تستی) (درجه‌های مختلف از یک)

$$\Rightarrow x = \sqrt{(1+x^2)+b}$$

$$\rightarrow px+bs=0 \rightarrow x = \frac{-bs}{p}$$

②

$$f(x) = \sqrt{x^2 + px + q} \rightarrow \Delta \leq 0 \rightarrow f(x) \leq 0$$

$$1 - p + m^2 \leq 0 \rightarrow m^2 \leq 1 \rightarrow -1 \leq m \leq 1$$

میان s و p

③

$$[x] + [-x] \rightarrow \text{if } x \in \mathbb{Z} \rightarrow = 0$$

$$\rightarrow \text{if } x \notin \mathbb{Z} \rightarrow -1 \rightarrow \text{درجه‌های مختلف از یک}$$

$$f(x) \geq 0 \rightarrow x^2 \leq f$$

$$-p \leq x \leq p$$

$$D_f = [-p, p]$$

④

الف)

$$\sqrt{x^2(x+10)}$$

$$x^2(x+10) \geq 0$$

$$\begin{array}{c|c|c|c|c} -10 & 0 & 0 & 0 & 10 \\ \hline + & - & + & - & + \end{array}$$

$$\rightarrow D_f = [-10, 10]$$

ب)

$$\sqrt{\frac{x^2(x-1)(x-10)(x+1)}{(x-1)(x+10)}}$$

$$\begin{array}{c|c|c|c|c} -1 & 0 & 0 & 0 & 10 \\ \hline + & - & + & - & + \end{array}$$

$$\rightarrow D_f = (-\infty, -1] \cup [10, \infty)$$

⑤

الف)

$$|x-2|-10 \geq 0 \rightarrow |x-2| \geq 10$$

$$\rightarrow x-2 \geq 10 \rightarrow x \geq 12$$

$$x-2 \leq -10 \rightarrow x \leq -8$$

$$x-2 \geq 10 \rightarrow x \geq 12$$

$$D_f = (-\infty, -8] \cup [12, \infty)$$

ب)

$$f - |p-x| \geq 0 \rightarrow |p-x| \leq f$$

$$\rightarrow -f \leq p-x \leq f \rightarrow -f \leq p-x \leq f$$

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⑥

الف)

$$1 - x|x| \geq 0 \rightarrow x|x| \leq 1$$

$$\rightarrow x|x| \leq 1 \rightarrow x|x| \leq 1$$

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$$\rightarrow x|x| \leq 1 \rightarrow x|x| \leq 1$$

$$D_f = [-1, 1]$$

ب)

$$\sqrt{1-|x-1|} \geq 0 \rightarrow 1-|x-1| \geq 0$$

$$\rightarrow |x-1| \leq 1 \rightarrow -1 \leq x-1 \leq 1$$

$$\rightarrow -1 \leq x-1 \leq 1 \rightarrow -1 \leq x-1 \leq 1$$

$$\rightarrow -1 \leq x-1 \leq 1 \rightarrow -1 \leq x-1 \leq 1$$

$$D_f = [0, 2]$$

⑦

الف)

$$\cos \neq 0 \rightarrow D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

$$x - \cos x \geq 0 \rightarrow x \geq \cos x$$

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$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

ب)

$$x \cos x \geq 0 \rightarrow \cos x \geq \frac{1}{x}$$

$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

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⑧

الف)

$$|r_{n+1}| - |r_n + \omega| \leq 0 \rightarrow |r_{n+1}| \leq |r_n + \omega|$$

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$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

ب)

$$|r_{n+1}| \geq |r_n + \omega| \rightarrow |r_{n+1}| \geq |r_n + \omega|$$

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$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

⑨

$$r_{n-1} > 0 \rightarrow r_n \geq \frac{1}{p}$$

$$\log \omega \rightarrow r_{n-1} > 1 \rightarrow r_n \geq 1$$

$$\log \omega \rightarrow r_{n-1} > 1 \rightarrow r_n \geq 1$$

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$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

$$\log \omega \rightarrow r_{n-1} > 1 \rightarrow r_n \geq 1$$

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$$D_f = \mathbb{R} - \{k\pi + \frac{\pi}{2}\}$$

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$$D_f \leq (10^p)$$

(الف)

$$P \cos n + 1 > 0 \rightarrow \cos n > -\frac{1}{P}$$

$$D_2 = R_2 \left[PK\pi + \frac{1}{P} \right] PK\pi + \frac{1}{P}$$

(ب)

$$\frac{n-1}{n+1} > 0 \quad \begin{array}{c} -1 \\ +1 \end{array} \quad \rightarrow \quad \log \frac{n-1}{n+1} > 0 \rightarrow \frac{n-1}{n+1} > 1 \rightarrow \frac{n-1}{n+1} - 1 > 0$$

$$D_3 = (-\infty, -1)$$

D

$$\frac{n-1-n-1}{n+1} > 0$$

$$\frac{-2}{n+1} > 0$$

$$-1 < \frac{2}{n+1} < 0$$

$$n < -1$$