

$$\begin{array}{r}
 x^3 - 2x^2 + 2x - 1 \quad | \quad x-1 \\
 \underline{x^3 - x^2} \\
 -x^2 + 2x - 1 \\
 \underline{-x^2 + x} \\
 x - 1 \\
 \underline{x - 1} \\
 0
 \end{array}$$

الف) $\Delta = 1 - 4 < 0$
 $(x-b) \rightarrow 1$

$D_f \subset \mathbb{R} - \{1\}$

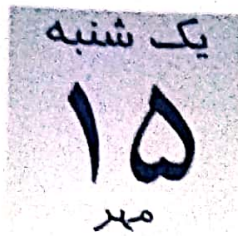
$$\begin{aligned}
 \therefore \frac{x+3}{x^3-2x^2+2x-1} \geq 0 &\rightarrow \begin{cases} x+3 \geq 0 & x \geq -3 \\ x-1 > 0 & x > 1 \end{cases} \\
 &\rightarrow \Delta < 0
 \end{aligned}$$

$(1, +\infty) = D$

$$\frac{2}{x^2 - \Delta(x-1) - 2x + \Delta} \neq 0 \rightarrow \frac{0}{-} = \textcircled{1}$$

$$\begin{aligned}
 \text{if } \rightarrow x \geq 1 &\rightarrow x^2 - \Delta x + \Delta - 2x + \Delta \Rightarrow x^2 - 2x + 1 \rightarrow (x-1)(x-1) \\
 \left\{ \begin{aligned} &x < 1 \rightarrow x^2 + \Delta x - \Delta - 2x + \Delta \leq x^2 + 3x \rightarrow x(x+3) \end{aligned} \right\}
 \end{aligned}$$

روز دامپزشکی



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$$Df \subset \mathbb{R} - \{ -3, 0, 2, 5 \}$$

ارائه جواب سوال 3 =

$$\text{الف) } [n] - 2 \geq 0 \rightarrow [-n] \geq 2 \quad -n \geq 2 \quad n \leq -2$$

$$Df \subset (-\infty, -2]$$

$$\text{ب) } [n]^2 - 2[n] - 3 \neq 0$$

$$([n] - 3)([n] + 1) \neq 0 \rightarrow [n] \neq -1, 3$$

$$\left. \begin{array}{l} [n] \geq 3 \rightarrow n \in [3, 4) \\ [n] \leq -1 \rightarrow n \in [-1, 0) \end{array} \right\} \rightarrow Df \subset (-\infty, -1) \cup [0, 3) \cup [4, +\infty)$$

$$\text{الف) } [n - \frac{1}{3}] + [n + \frac{2}{3}] \geq 0$$

$$[n - \frac{1}{3} + 1] + [n + \frac{2}{3}] \rightarrow 2[n + \frac{2}{3}] - 1 \geq 0 \rightarrow [n + \frac{2}{3}] \geq \frac{1}{2}$$

$$n + \frac{2}{3} \geq 1 \rightarrow n \geq \frac{1}{3} \quad Df \subset [\frac{1}{3}, +\infty)$$



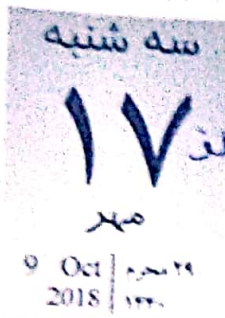
$$\therefore t = n - \frac{1}{p}$$

$$[t] + [-t] \rightarrow \begin{cases} t \in \mathbb{Z} \rightarrow 0 \\ t \notin \mathbb{Z} \rightarrow -1 \end{cases}$$

$\rightarrow$ $\text{دوشنبه} \rightarrow n \geq 0$
 $\text{دوشنبه} \rightarrow n \geq 0$

$$G(t \in \mathbb{Z} \rightarrow 0)$$

$$n - \frac{1}{p} \in \mathbb{Z} \rightarrow P_L = \{n\} \frac{1}{p} + k \mid k \in \mathbb{Z}\}$$

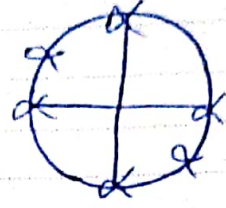


$$\text{الف) } \frac{\cos n \neq 1}{\tan n \neq 1}$$

$$\rightarrow \tan n \neq 1$$

$$\cos n \neq 0$$

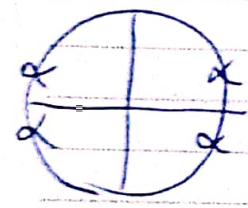
$$\sin n \neq 0$$



- 4

$$Df \subset \mathbb{R} - \left[\frac{\kappa a}{r}, \kappa a - \frac{a}{r} \right]$$

$$\therefore \rightarrow 1 - r \sin^2 n \geq 0 \rightarrow 1 \geq r \sin^2 n \rightarrow \sin n \geq -\frac{1}{r}$$



$$\rightarrow Df \subset \left[\kappa a - \frac{a}{r}, \kappa a + \frac{a}{r} \right] \cup \left[\kappa a + \frac{a}{r}, \kappa a, \frac{\kappa a}{r} \right]$$

$$\text{ب) } \rightarrow r \sin n - 1 \geq 0 \quad \sin n \geq \frac{1}{r}$$

$$Df \subset \left[\kappa a + \frac{a}{r}, \kappa a + \frac{a}{r} \right]$$

$$\left\{ \begin{array}{l} \rightarrow 1 - r \cos n \geq 0 \\ \rightarrow \frac{1}{r} \geq \cos n \end{array} \right.$$

$$\left[\kappa a + \frac{a}{r}, \kappa a - \frac{a}{r} \right]$$

در سبب تافقی

کلاس C

جمعه

۱۳

مهر

5 Oct 2018 | ۲۵ محرم ۱۴۴۰

پنج شنبه

۱۲

مهر

4 Oct 2018 | ۲۴ محرم ۱۴۴۰

$$\begin{array}{r} 2x^3 + 3x^2 - 11x + 3 \quad | \quad x-1 \\ \underline{2x^3 + 2x^2} \\ 5x^2 - 11x + 3 \\ \underline{5x^2 + 5x - 5} \\ -6x + 8 \\ \underline{-6x + 6} \\ 2 \end{array}$$

$$2x^2 + 5x - 3 \rightarrow (x-1)(x+3)(x-\frac{1}{2})$$

$$\frac{1}{2} \rightarrow 3 \rightarrow 1 \rightarrow 2$$

(الف)

$$D_L = IR - \left\{ -3, \frac{1}{2}, 1 \right\}$$

$$\begin{array}{r} 2x^3 + 9x^2 + 10x + 3 \quad | \quad x+1 \\ \underline{2x^3 + 2x^2} \\ 7x^2 + 10x + 3 \\ \underline{7x^2 + 7x} \\ 3x + 3 \\ \underline{3x + 3} \\ 0 \end{array}$$

$$(x+1)\left(x+\frac{1}{2}\right)\left(x+\frac{4}{3}\right)$$

$$D_L = IR - \left\{ -1, -3, -\frac{1}{2} \right\}$$

۱۳ - شهادت حضرت امام زین العابدین (ع) (۹۵ ه.ق) به روایتی - هجرت حضرت امام خمینی (ره) از عراق به پاریس (۱۳۵۷ ه.ش) - روز نیروی انتظامی

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چهارشنبه

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مهر

10 Oct 2018 | ۳۰ محرم ۱۴۴۰

$$\begin{array}{c} \text{---} -r \quad \quad -1 \text{---} \\ | \quad \quad | \\ + \circ - \circ + \\ | \quad \quad | \end{array}$$

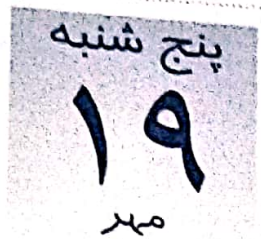
$$Df = (-\infty, -r] \cup [-1, +\infty)$$

$$\begin{array}{c} - \quad \mu \quad 0 \\ \hline + \quad | \quad - \quad | \quad + \\ \quad \quad \quad \cup \quad \quad \end{array} \quad \mathcal{DL} \{ - \mu, 0 \}$$

$\Lambda \rightarrow$

 $\mathcal{DL}_s[-r, -r] \cup [-1, 0]$

$$\left. \begin{array}{l} \text{b) } \delta - \epsilon n > 0 \rightarrow n \leq \frac{\delta}{\epsilon} \\ -1 \leq \sqrt{\delta - \epsilon n} \leq 1 \rightarrow \delta - \epsilon n \leq 1 \quad n \geq r \end{array} \right\} n \rightarrow [r, \frac{\delta}{\epsilon}]$$



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$$\log_r n \rightarrow \{n > 0\} \rightarrow 1 - \log_r n > 0$$

$$\hookrightarrow 1 > \log_r n \rightarrow \{n < 3\}$$

$$Df_s(0, 3)$$

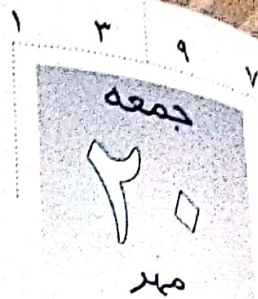
$$\therefore 1 - \log_r \frac{n}{r} > 0 \rightarrow 1 > \log_r \frac{n}{r} \rightarrow \frac{1}{r} > n$$

$$Df_s(0, \frac{1}{r})$$

$$\frac{r^n - n^r}{r} - 1 \geq 0 \quad \frac{r^n - n^r}{r} \geq 1 \rightarrow \log_r r^n \geq \log_r r^3 - 1$$

$$\frac{r^n - n^r}{r} \geq 3 \rightarrow (n-1)(n-3) \leq 0$$

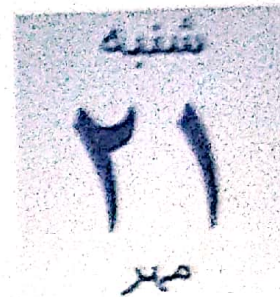
$$\begin{array}{c} 1 \quad 3 \\ + \quad | \quad - \quad | \quad + \\ \hline \end{array} \rightarrow Df_s[1, 3]$$



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$$\frac{1}{6} = \left(\frac{r n + d}{r n + k} \right)! \quad \frac{r n + d}{r n + k} \in W$$

$$n = \frac{r W - d}{r W - k} \rightarrow \left\{ n \mid n = \frac{r k - d}{r - r k}, k \in W \right\}$$



13 Oct 2018 | مهر ۱۳۹۷