

هرکتی

تصحیح فراموش

(1)

$$2x^3 + 3x^2 - 11x + 4 = 0 \quad | \quad x-1$$

$$R = \left\{ \frac{1}{2}, -\frac{3}{2} \right\} \quad \text{الف}$$

$$(x-1)(2x^2 + 5x - 3)$$

$$(x-1)(2x-1)(x+3)$$

$$x=1$$

$$x=\frac{1}{2}$$

$$x=-3$$

$$9+3=1+1$$

ب

$$(2x+1)(x+3)(x+1)$$

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

ج

$$(x-1)(x^2 - 2x + 1)$$

$$R = \{1\} \quad \text{الف}$$

$$(x-1)(x^2 - x + 1) > 0$$

$$(1, +\infty) \quad \text{ب}$$

$$x-1 > 0$$

$$x^2 - 2x + 1 \neq 0$$

د

$$x > 0 \Rightarrow x^2 - vx + 2 \neq 0$$

$$v = \frac{\sqrt{19}}{2}$$

$$R = \left\{ \frac{v+\sqrt{19}}{2}, \frac{v-\sqrt{19}}{2} \right\} \quad \text{الف}$$

$$[-x] > x \rightarrow -x > x \rightarrow x < -x$$

ف

$$[-\infty, -1] \quad \text{الف}$$

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

$$[x] \neq -1$$

ب

$$R = ([-1, 0) \cup [3, 4))$$

$$\sqrt{[x]} > 0$$

$$[x] > 0 \rightarrow x > 0 \rightarrow x > 0$$

$$[0, +\infty) \text{ (a)}$$

$$[a] + [-a] \rightarrow a \in \mathbb{Z}$$

$$[x-1, y] + [1, y-x] = 0 \quad x = k + \frac{1}{y}$$

$$[x \in \mathbb{R} \mid x = k + \frac{1}{y}, k \in \mathbb{Z}]$$

$$\tan x \neq 0 \quad (x \neq k\pi) \quad (\tan x \neq -1)$$

$$\mathbb{R} - \left\{ k\pi, k\pi - \frac{\pi}{2} \right\}$$

$$1 - \sin^2 x > 0 \rightarrow \sin^2 x < 1, \quad |\sin x| < 1$$

$$\left[ k\pi - \frac{\pi}{2}, k\pi + \frac{\pi}{2} \right]$$

$$\sin x > \frac{1}{2} \quad \left[ 2k\pi + \frac{\pi}{6}, 2k\pi + \frac{5\pi}{6} \right]$$

$$\cos x \leq \frac{1}{2}$$

$$\left[ 2k\pi + \frac{\pi}{3}, 2k\pi + \frac{2\pi}{3} \right]$$

$$-1 < \sqrt{a-x} < 1 \quad \Leftrightarrow \quad -1 < x < 1 \quad \Leftrightarrow \quad -1 < x < 1$$

$$x > 0$$

$$1 - \log x > 0 \quad \Leftrightarrow \quad \log x < 1 \quad \Leftrightarrow \quad x < 10$$

$$(0, 10)$$

$$\log_a b > 0$$

$$x+1 > x > 0$$

(ب)

$$1 - \log_e x > 0 \Rightarrow x < 1$$

Year:      Month:      Day:      (0,1)  $\cup$  (1,  $\infty$  ) : جواب      Page: (      )

**SUBJECT:**

(مقررہ وقت)

$$x^k x - x^k > 1^k \Rightarrow x^k - x^k > 1^k \Rightarrow x^k - x^k < 0 \quad (1)$$

$$(x-1)(x-1) < 0 \quad [1, \infty) \text{ : جواب } (C)$$

$$\frac{x^k x + 8}{x^k + 1} \in \mathbb{N} \quad (ب)$$

$$[x | x \in \frac{x^k - a}{x - 1}, k \in \mathbb{N}]$$

10 \_\_\_\_\_