

سوال = مقرر

نہا (مقرر)

Page: جواب = مشق

SUBJECT

Year:

Month:

Day:

-1

$$الف) y = \sqrt{\frac{x^2 - 4x}{x^2 - x}} = D_f = (-1, 0) \cup (0, 1) \cup [4, +\infty)$$

$$ب) y = \sqrt{\frac{x^2 - x^3}{x^2 - x}} = D_f = \mathbb{R} - [-1, 0, 1]$$

-2

$$الف) y = \frac{x+1}{\sqrt{x+1}} = D_f = (0, +\infty)$$

$$ب) y = \frac{1}{\sqrt{x|x|}} = D_f = (0, +\infty)$$

-3

$$الف) y = \sqrt{2 - [x]} = D_f = (-\infty, 2)$$

$$ب) y = \frac{1}{\sqrt{2 - [x]}} = D_f = (-\infty, 2)$$

-4

$$الف) y = \sqrt{\left[x - \frac{1}{3}\right] + \left[x + \frac{2}{3}\right]} = D_f = \left[\frac{1}{3}, +\infty\right)$$

$$ب) y = \sqrt{\left[x - \frac{1}{3}\right] + \left[-x + \frac{1}{3}\right]} = D_f = \left[x \mid x - \frac{1}{3} + k, k \in \mathbb{Z}\right]$$

-21

Genobar



الف) $y = \frac{r}{\sin x - 1}$ $D_f = \mathbb{R} - \left[\frac{\pi}{r} + k\pi \mid k \in \mathbb{Z} \right]$ -A

ب) $y = \frac{r}{r \sin x - 1}$ $D_f = \mathbb{R} - \left[\frac{k\pi}{r} + \frac{\pi}{r} \mid k \in \mathbb{Z} \right]$

الف) $y = \sqrt{r \sin x - 1}$ $D_f = \left[\frac{\pi}{r} + 2k\pi, \frac{3\pi}{r} + 2k\pi \right]$

ب) $y = \sqrt{\cos x - 1}$ $D_f = [2k\pi \mid k \in \mathbb{Z}]$

الف) $\cos y = |x| - r$ $D_f = [-r, -1] \cup [1, r]$ ✓

ب) $y = \arcsin(x^r + r x + 1)$ $D_f = [-r, -1]$
 $\cup [-1, 0]$

الف) $y = \sqrt{r - \log_r(x - r)}$ $D_f = (r, 1]$ -A

ب) $y = \log(x^r - x)$ $D_f = (-1, 0) \cup (1, +\infty)$

الف) $y = \frac{r}{r^x + 1}$ $D_f = \mathbb{R}$ | ب) $y = \frac{r}{r^x - 1}$ $D_f = \mathbb{R} - [0]$ -A

ج) $y = \frac{r}{r^x - r}$ $D_f = \mathbb{R} - \left[\frac{1}{r} \right]$ | د) $y = \frac{r}{r^x - r}$
 $D_f = \mathbb{R} - \{ \log_r r \}$



$$a) y = (rx + 1)! \quad D_f = \left\{ \frac{k-1}{r} \mid k \in \mathbb{N} \right\} \quad 1a$$

$$b) y = \left(\frac{rx - Y}{rx - \omega} \right)! \quad D_f = \left\{ \frac{r - \omega k}{r - \omega} \mid k \in \mathbb{N} \right\}$$