

14, VD

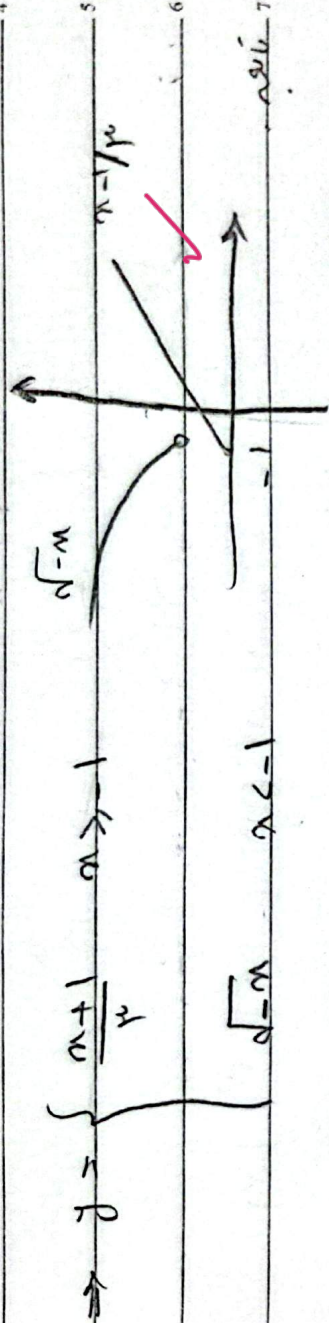
SUBJECT:

Page: ()

Year: Month: Day:

Bis positive, negative

$$x = \begin{cases} x^2 y - 1 & y > 0 \Rightarrow y - 1 > -1 \Rightarrow x > -1 \\ -y^2 & y > 1 \Rightarrow -y^2 < -1 \Rightarrow x < -1 \end{cases} \quad (2)$$



$$g(x) = \left| \frac{x f(x-r)}{f(x)} \right| \rightarrow \frac{x f(x-r)}{f(x)} > 0 \quad (2)$$

$x=0, f(x)=0 \Rightarrow -0^2, 0 \quad f(x-r) \Rightarrow -r^2, 0 \Rightarrow \frac{0}{0}$

$$- \frac{0}{0} + \frac{0}{0} - \frac{0}{0} + \frac{0}{0} - \frac{0}{0} + \frac{0}{0} \rightarrow D: (-0, -r^2] \cup [0, r^2) \cup [r^2, +\infty)$$

متقاطعت با هم $x=4$ در $f(x)$ و $f(x-r)$ است

الف) $x^2 - r^2 \neq 0 \Rightarrow x(x^2 - r^2) \neq 0 \Rightarrow D: R - \{0, r, -r\}$ (2)

ب) $\frac{x^2 - r^2}{x^2 - r^2} > 0 \Rightarrow \frac{x^2 - r^2}{x^2 - r^2} > 0 \Rightarrow D: (-r, 0) \cup (0, r) \cup (r, +\infty)$

$$\frac{x^2 - r^2}{x^2 - r^2} > 0 \Rightarrow \frac{x^2 - r^2}{x^2 - r^2} > 0 \Rightarrow \frac{x^2 - r^2}{x^2 - r^2} > 0$$

الف) $\frac{x-r}{x^2 - r^2} > 0 \Rightarrow \frac{x-r}{x^2 - r^2} > 0 \Rightarrow \frac{x-r}{x^2 - r^2} > 0$

$$\frac{x-r}{x^2 - r^2} > 0 \Rightarrow \frac{x-r}{x^2 - r^2} > 0 \Rightarrow \frac{x-r}{x^2 - r^2} > 0$$

Genobar

الف) ادفع:
$$\frac{-2}{-1} + \frac{2}{1} +$$

$$D_p = (-2, 2) \cup (2, +\infty)$$

(2)

ب) $x = 2 \Rightarrow [2, +\infty) \neq \emptyset \Rightarrow [2, +\infty) \neq \emptyset \Rightarrow [2, +\infty) \neq \emptyset$

$$D_p \cap R = (-2, 2) \cup (2, +\infty) \cap R = (-2, 2) \cup (2, +\infty)$$

الف) $x(x^2 - 1) > 0 \Rightarrow x(x-1)(x+1) > 0 \Rightarrow \frac{-1}{+} \frac{0}{+} \frac{1}{+}$

(2) (4)

8. $|x| + x > 0 \Rightarrow x > 0 \Rightarrow N: D_p = [1, +\infty)$

ب) $|x| - 1 \neq 0 \Rightarrow x \neq -1$

10. $|x-2| - x^2 > 0 \Rightarrow \frac{x-2}{x^2} > 0 \Rightarrow x-2 > 0 \Rightarrow x > 2$

11. $\frac{-2}{+1} + \frac{2}{-1} +$

$$x-2 > 0 \Rightarrow x > 2 \Rightarrow x-2 > 0 \Rightarrow x > 2$$

$$N = [2, +\infty) \cup (-1, 1)$$

دفع!

الف) $(x-2)(x-2) > 0 \Rightarrow x < 2$

(2) (4)

15. $x=2 \Rightarrow x < 2 \Rightarrow x < 2 \Rightarrow x < 2$

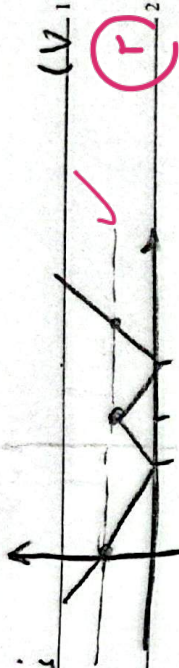
ب) $|x-2| - x^2 > 0$

18. $|x-2| - x^2 > 0 \Rightarrow x < 2 \Rightarrow x < 2 \Rightarrow x < 2$

(1)

$$D_p = [2, +\infty) \cup (-1, 1)$$

$$|1-x-r| = 1 \neq K \rightarrow \text{line}$$



$$g(x, y) = K \text{ boundary}$$

$\cdot K \neq 1$ Check the case

$$\frac{x^r + y^r + r}{x^r + y^r + r} \rightarrow m \neq -1, \frac{r}{r} = 1$$

$$\frac{x+1}{x-1} = \frac{r-1}{r+1} \rightarrow m \neq -1 \rightarrow n \leq \frac{r}{2}$$

$$\frac{x-1}{x-1} \rightarrow m \neq 1 \quad x^r - y^r + 950 = (x-y) \frac{x^r + y^r + 950}{x-y}$$

$$\textcircled{1}: x+1 > 0 \rightarrow m > -1$$

$$x+1 \neq 1 \rightarrow m \neq 0 \quad \checkmark$$

$$\textcircled{2}: m \neq 1 \rightarrow (0, 1) \text{ slope}$$

$$x > 0$$

$$\textcircled{3}: dy^{1/r} > 0 \quad \frac{1}{dy^{1/r}} \rightarrow \frac{dy^{1/r}}{dy^{1/r}} > 0 \rightarrow \frac{dy^{1/r}}{dy^{1/r}}$$

$$-1 \leq x^r - 1 \leq r^r \rightarrow -1 \leq x^r \leq r^r \rightarrow x^r \in [1, r^r]$$

$$\frac{r}{r^r} \leq x \leq \frac{r}{r^r} \rightarrow \text{range of } \left[\frac{r}{r^r}, \frac{r}{r^r} \right]$$