

2) $\sqrt{x^5 - 4x^2 + 2x + 1} \rightarrow \sqrt{1R} \subseteq [0, +\infty) = R_f$

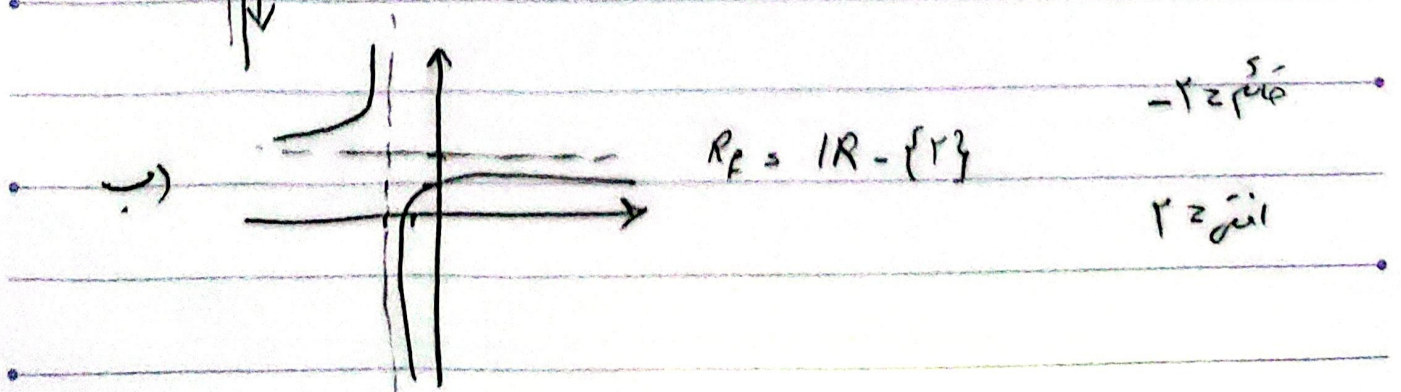
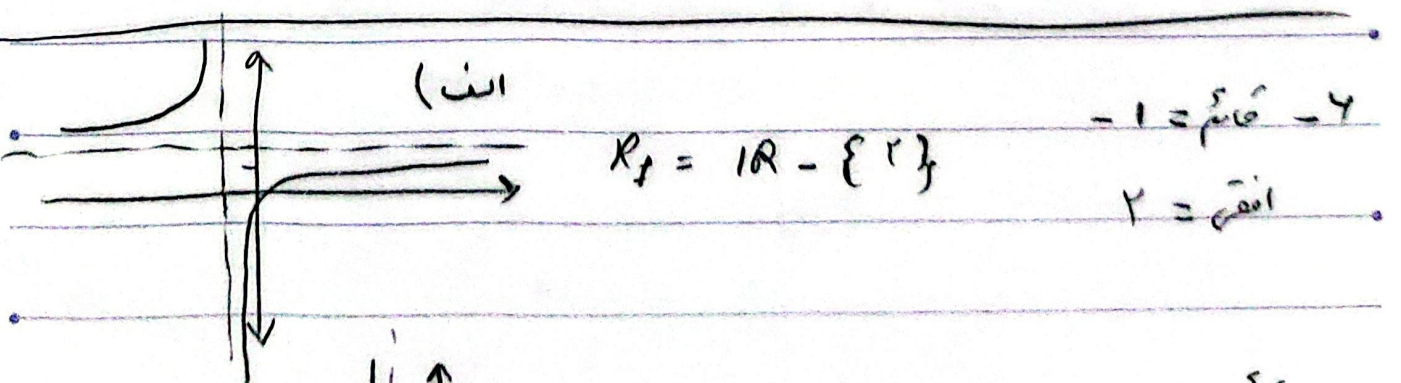
3) $y = (x^5 - 4x^2 + 2x + 1)^5 \rightarrow R_f = [0, +\infty)$

4) $y = \frac{x^2 + 1}{x - 2} \rightarrow R_f = 1R - \{2\} \quad -\infty$

5) $y = \frac{x^2 + 1}{x + 1} \rightarrow R_f = 1R - \{-1\}$

6) $y = \sqrt{\frac{x^2 + 2}{x + 1}} \rightarrow \sqrt{1R - \{2\}} \rightarrow R_f = [0, +\infty) - \{2\}$

7) $y = \sqrt{\frac{x^2 + 1}{x + 2}} \rightarrow \sqrt{1R - \{-2\}} \rightarrow R_f = [0, +\infty)$





Year:

Month:

Day:

| |

Subject:



-V

$$a) y = \sin x + \frac{1}{\sin x} \xrightarrow{1 > \sin x > -1} R_f = (-\infty, -1] \cup [1, +\infty)$$

$$b) y = \frac{x^4 + 1}{x^3} = x + \frac{1}{x^3} \rightarrow R_f = (-\infty, -1] \cup [1, +\infty)$$

$$c) y = \frac{\sqrt[3]{x^3 + 1}}{\sqrt[3]{x^3}} = \sqrt[3]{x + \frac{1}{x}} \rightarrow R_f = (-\infty, -1] \cup [1, +\infty)$$

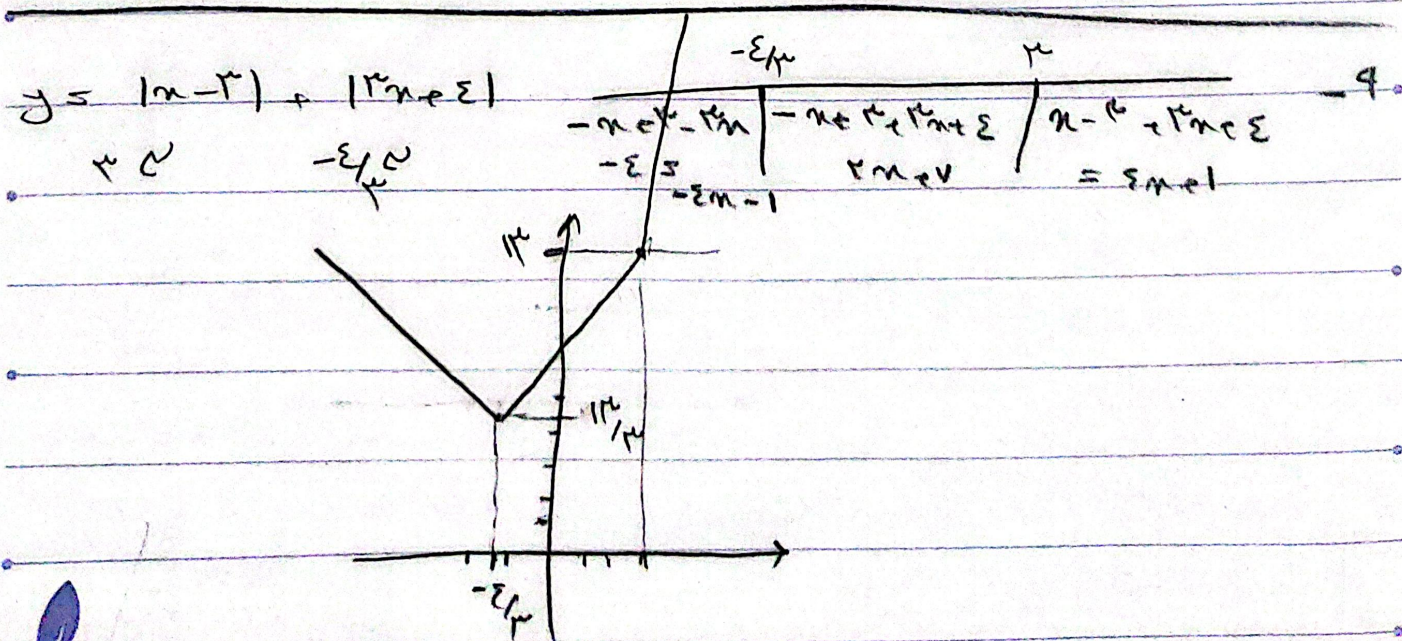
$$d) y = \sqrt{x} + \frac{1}{\sqrt{x}} \rightarrow R_f = [1, +\infty)$$

$$a) x^{\frac{1}{2}} + \frac{1}{x^{\frac{1}{2}}} + \frac{1}{x^{\frac{1}{2}}} \rightarrow (x^{\frac{1}{2}} + \frac{1}{x^{\frac{1}{2}}}) + \frac{1}{x^{\frac{1}{2}}} \rightarrow \frac{1}{x} - \frac{1}{x} = \frac{1}{x} \rightarrow R_f = [1, +\infty)$$

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

$$b) y = \frac{x^2 + 2}{\sqrt{x^2 + 2}} = \sqrt{x^2 + 2} + \frac{1}{\sqrt{x^2 + 2}} \rightarrow R_f = [2, +\infty)$$

$\frac{1}{\sqrt{x^2 + 2}} = \frac{1}{\sqrt{x^2 + 2}}$



Year:

Month:

Day:

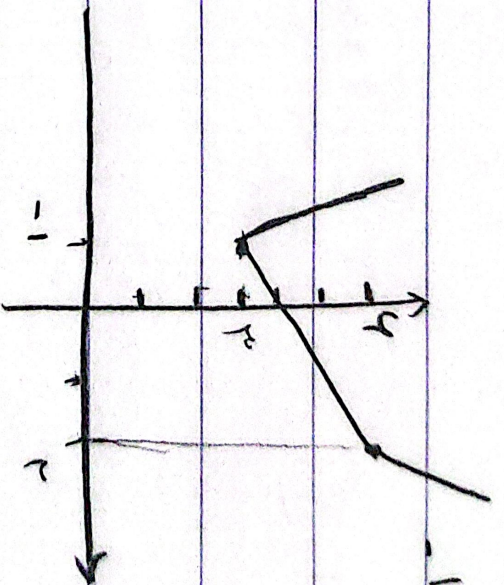
Subject:

ii) $y = |n-c| + |cne|$

$\rightarrow c$

$\rightarrow -1$

$$\frac{-cne + cne + 1}{-cne + cne + 1} \left| \begin{array}{c} -1 \\ -n+c+cne \end{array} \right| \frac{r}{n-c+cne} = n+c$$



iii) $y = |cn-r| - |nre|$

$\rightarrow 1$

$\rightarrow -1$

$$\frac{-cn + c + nre}{-cn + c + nre} \left| \begin{array}{c} -1 \\ rn+c-n-1 \end{array} \right| \frac{1}{rn-c-n-1} = 1-rn$$

