

$$y = a + |x - f|$$

$$\begin{array}{r} x \\ f-a \quad | \quad x-f \\ (x+\infty) \cup (x-\infty) \end{array} R_f = [x - \infty)$$

$$y = |x-2| + |x-1| - |x|$$

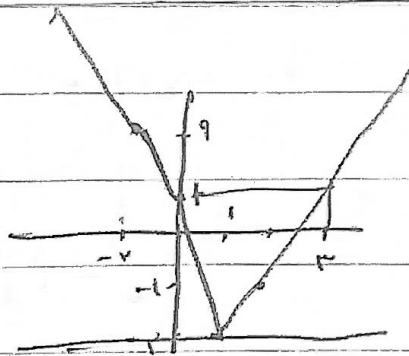
$$\begin{array}{r} x \\ x-2 \quad | \quad -x+2 \quad | \quad 1-x \quad | \quad x-1 \\ (x+\infty) \cup [0, 2] \cup [-1, 0] \cup [-1, +\infty) = \\ R_f = [-1, +\infty) \end{array}$$

$$|x-2| - |x+2| = k$$

$$y_1 = |x-2| - (x+2)$$

$$y_2 = 1$$

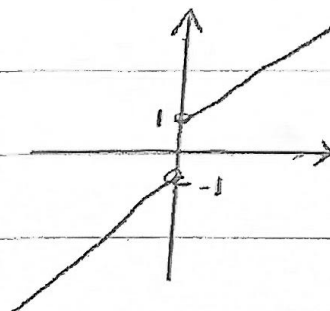
دو خط قطعی در یک نقطه تقاطع دارند.



$$y_2 = k = kx - 5$$

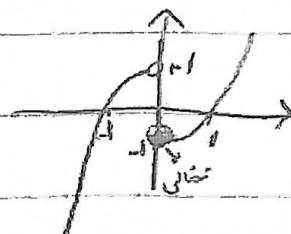
$$y = a + \frac{a}{|x|}$$

$$\begin{array}{r} x \\ x+\frac{a}{-a} \quad | \quad x+\frac{a}{a} \\ x-1 \quad | \quad x+1 \end{array}$$



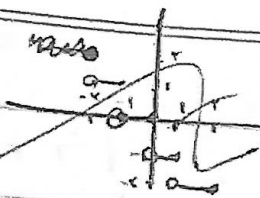
$$y = a|x| - \frac{a}{|x|}$$

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

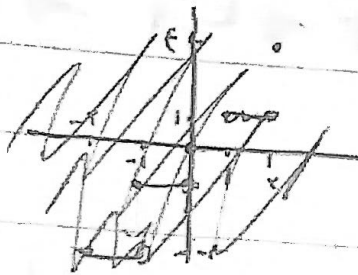


سوال آخر جواب دے

$$y = [a] - r_a$$



$$y = [a] - r_a$$



$$y = r_a - [r_a]$$

$$Rf = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

د

$$y = f_a - f[a] = f(a - [a]) \Rightarrow Rf = \begin{bmatrix} 0 & f \end{bmatrix}$$

د

$$y = a - \omega \left[\frac{a}{\omega} \right] \quad \omega \left(\frac{a}{\omega} - \left[\frac{a}{\omega} \right] \right) \quad Rf = \begin{bmatrix} 0 & \omega \end{bmatrix}$$

$$y = [r_a] - r_a = [a] - a \rightarrow -1(a - a) = 0$$

$$y = r \sin \alpha, r \cos \alpha \rightarrow \sqrt{r^2} \rightarrow \begin{bmatrix} \sqrt{r^2} & \sqrt{r^2} \end{bmatrix} \quad y$$

$$y = r \sin \alpha, r \cos \alpha \rightarrow \sqrt{r^2} \rightarrow \begin{bmatrix} \omega & \omega \end{bmatrix}$$

$$y = [r \sin \alpha, r \cos \alpha] \rightarrow \sqrt{r^2} \rightarrow \{ -r, -\omega, 0, \omega, r \} \rightarrow \{ -r, -\omega, 0, \omega, r \}$$

$$y = \sqrt{\cos \alpha - r \sin \alpha} \rightarrow \sqrt{1} \rightarrow \sqrt{-\sqrt{2}} \sqrt{\cos \alpha - r \sin \alpha} \sqrt{2}$$

$$Schö \quad Rf = \begin{bmatrix} 0 & \sqrt{2} \end{bmatrix}$$

$$\sin^r \alpha + \sin^r \alpha = r$$

$$\frac{b}{ra} = \frac{-r}{r} \Rightarrow \frac{b}{ra} = -1$$

$$\sin \alpha = -1$$

$$\sin \alpha = 0$$

$$R_f = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$\frac{1}{f} = \frac{1}{f}$$

$$R_f = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$R_f = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$\sin^r \alpha + \sin^r \alpha = r$$

$$\frac{1}{\lambda} + \frac{1}{\lambda} = r$$

$$\frac{-1}{\lambda} + \frac{-1}{\lambda} = \frac{r}{\lambda}$$

$$\frac{b}{ra} = \frac{-r}{r} = -1 \Rightarrow \frac{b}{ra} = -1$$

$$R_f = \begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$R_f = \begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$\sin \alpha = 1 = \sqrt{1}$$

$$\sin \alpha = -1 = -1$$

$$y \sin^r \alpha + r \cos^r \alpha = \sin^r \alpha + r \sin^r \alpha$$

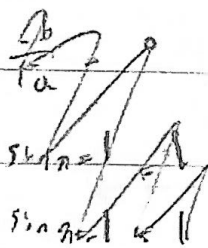
$$-r \sin^r \alpha$$

$$R_f = \begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$r = 1$$



$$y \frac{\cos \alpha}{1 + \cos^r \alpha} = r \frac{\cos \alpha}{\sin^r \alpha} = r \cos \sin = \sin^r \alpha$$

$$\begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$y = \sin^r \alpha + \cos^r \alpha$$

$$\begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$\frac{1-r}{r} = \frac{1}{f}$$

$$\frac{1}{f} = \frac{1}{f}$$

$$y = [\sin^r \alpha + \cos^r \alpha]$$

$$\{0, 1\}$$

$$\begin{bmatrix} 1 & 1 \end{bmatrix}$$

$$\frac{r^2 + \sqrt{a-1}}{a+1}$$

$$\frac{-\sqrt{1+\sqrt{a-1}}}{r} < \frac{1}{r}$$

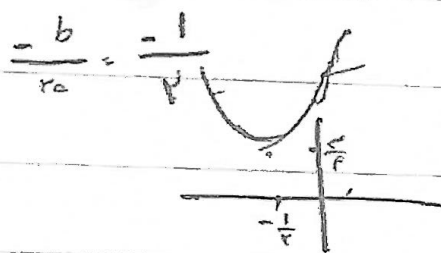
1.

$$(a-1)$$

$$\frac{(a-1)(a-1)}{(a+1)} = a \frac{1}{a+1}$$

$$R = \{-1\}$$

$$y = \frac{a^x - 1}{a - 1} = \frac{(a-1)(a^{x-1} + a^{x-2} + \dots + 1)}{(a-1)} = a^{x-1} + a^{x-2} + \dots + 1$$



$$a \neq 1$$

$$\frac{1}{a} = \frac{1}{r} + 1 = \frac{r}{r-1}$$

$$\left(\frac{r}{r-1} + \infty\right)$$

$$y = [a] - ra$$

سوال 4

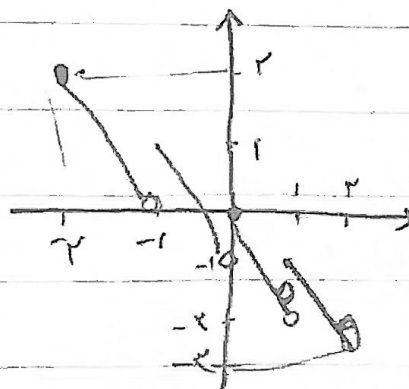
$$-r \leq a \leq -1 \rightarrow y = -ra$$

$$-1 \leq a \leq 0 \rightarrow y = -1 - ra$$

$$0 \leq a \leq 1 \rightarrow y = -ra$$

$$1 \leq a \rightarrow y = 1 - ra$$

$$a = r \rightarrow y = -r$$



$$y = [a] |a|$$

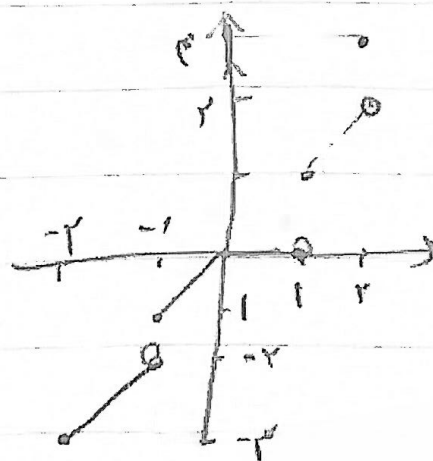
$$-r \leq a \leq -1 \rightarrow y = ra$$

$$-1 \leq a \leq 0 \rightarrow y = a$$

$$0 \leq a \leq 1 \rightarrow y = 0$$

$$1 \leq a \rightarrow y = a$$

$$a = r \rightarrow y = r$$



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