

نرس زنگنه

$$n=1 \quad f(1^0) + f(1^0) = 1^0 + f(1^0) \Rightarrow f(1^0) = 1^0$$

$$a(1^n+1)+b + a(1^n+1)+b = 1^n+1 \Rightarrow 1^na+n+1+b+a+n+1+b = 1^n+1$$

$$\Rightarrow 1^na+n+1+b = 1^na+n+1 \Rightarrow a=1, b=0 = 1^n+1^0+b$$

$$f(n) = n \Rightarrow \sqrt{n-n^p} \rightarrow -b/a = -1/-1 = 1 \Rightarrow R_f = [1/1]$$

$$\frac{n(n^p-1)}{n+1} = 1 \quad n^p - 1n - 1n - 1 = 0 \quad n^p - 12n - 1 = 0$$

$$n+1 \rightarrow n \neq -1 \quad n=1 \rightarrow 1-12-1 = -12 \Rightarrow f(n) = n^p - 12n$$

$$\Rightarrow D_f = [R - 12, -12]$$

$$R_f = [1, +\infty) \Rightarrow a+b = -12+1 = -11 \Rightarrow \frac{a+b}{1} = -11$$

$$f(1) = 1 - 12 = -11$$

$$y = \sqrt{(x-1)^p} = \sqrt{x^p + 12x - 9x^p - 1} \Rightarrow a = -9, b = 12$$

$$D_f = [-9, 12] \quad y = x-1 \Rightarrow R_f = [-1, 1]$$

$$D_{g_1} = [R - 12] \quad R_{g_1} = [12 - 12, 12] \Rightarrow y_1 x^p + b y_1 = a x^p - 1$$

$$a = \frac{1}{-1} \frac{-b y_1 - 1}{y_1 - 1} \Rightarrow b = -1$$

$$x^p(y_1 - a) = -1 - b y_1 \Rightarrow x^p = \frac{-b y_1 - 1}{y_1 - a} \Rightarrow a = 1$$

$$\Rightarrow a+b = 1-1 = 0$$

$$y = \frac{[a]}{a} + \frac{[a]}{a}$$

$$a=+1 \rightarrow 1+1=p$$

$$a=0 \rightarrow \frac{0}{0} = \text{undefined}$$

-a

$$a=+1/p \rightarrow \frac{[1/p]}{1/p} + \frac{[1/p]}{1/p} = 1$$

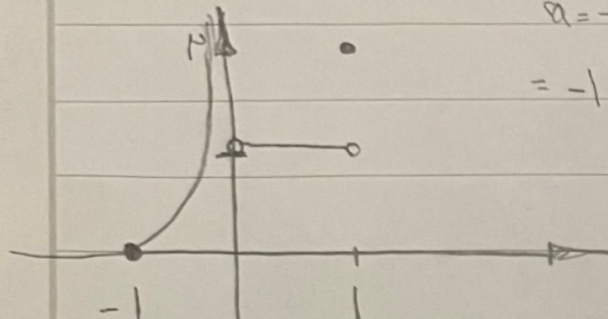
$$a=-1/p \rightarrow \frac{[-1/p]}{-1/p} + \frac{[-1/p]}{-1/p} = +1+1=p$$

$$0 < a < 1 \rightarrow \frac{[a]}{a} + \frac{[a]}{a}$$

$$a=-1/p \rightarrow \frac{[-1/p]}{-1/p} + \frac{[-1/p]}{-1/p} = +1+1=p$$

$$a=-1/p \rightarrow \frac{[-1/p]}{-1/p} + \frac{[-1/p]}{-1/p} = +1+1=p$$

$$a=-1 \rightarrow \frac{[-1]}{-1} + \frac{[-1]}{-1} = 1+1=0$$



$$y = \frac{[a]}{a} + \frac{[a+1/p]}{a+1/p}$$

$$a=1/p \rightarrow 0+1=1$$

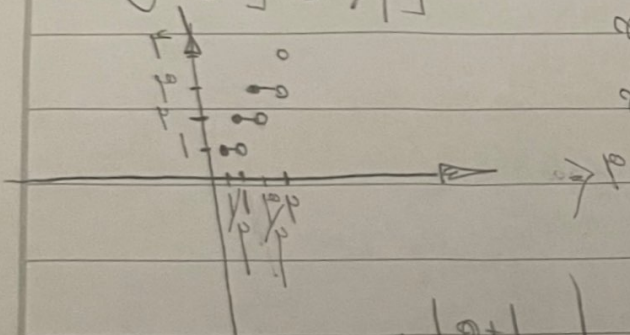
$$a=1/p \rightarrow 1 + \frac{[1/p+1/p]}{1/p+1/p} = p$$

$$a=1/p \rightarrow 0 + \frac{[1/p+1/p]}{1/p+1/p} = 1$$

$$a=1/p \rightarrow 1 + \frac{[1/p+1/p]}{1/p+1/p} = p$$

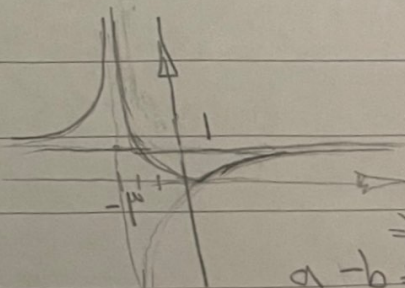
$$a=1 \rightarrow 1$$

$$a=1/p \rightarrow 1 + \frac{[1/p+1/p]}{1/p+1/p} = p$$



$$y = \frac{[a+1]}{a+1} + \frac{[a+1/p]}{a+1/p}$$

$$\int_{-1/p}^0 \frac{1}{a} da = -\ln(1/p) = \ln(p)$$



$$\frac{1}{a} = 1 \quad a=1$$

$$-\frac{1/p}{a} = -1/p$$

$$\Rightarrow b = -1/p$$

$$a-b = 1$$

$$y = \frac{[a+1]}{a+1} + \frac{[a+1/p]}{a+1/p}$$

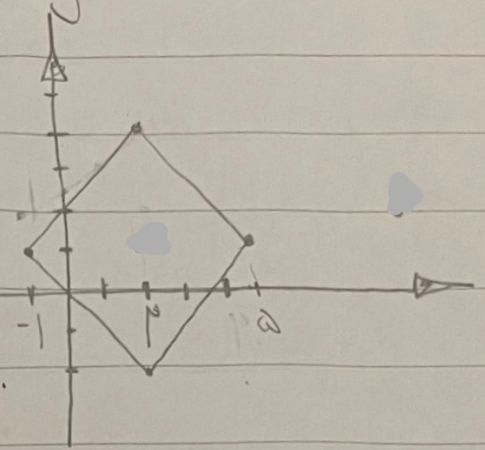
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$$y \geq 1 \quad |y-1| = 1 - |x-p|$$

$$y < 1 \quad -y+1 = 1 - |x-p|$$

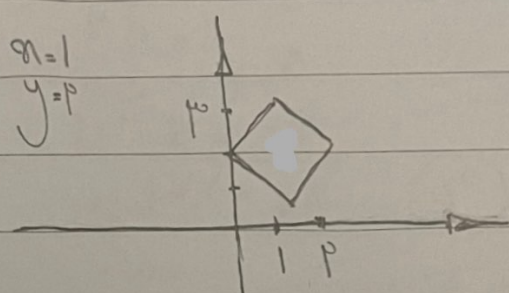
$$\begin{aligned} x > p & \quad y-1 = 1 - x + p \\ x < p & \quad y-1 = 1 + x - p \\ y &= x - p \\ y &= -x \end{aligned}$$

$$\begin{aligned} y &= 1 - x \\ y &= 1 + x \end{aligned}$$

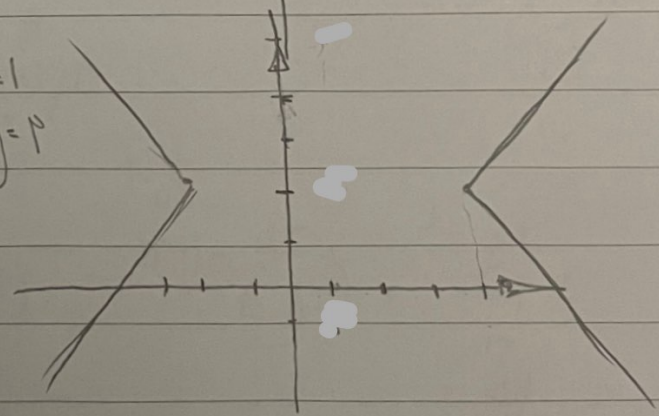


الف) $|x-1| + |y-p| = 1$

$$\begin{aligned} x &= 1 \\ y &= p \end{aligned}$$



ب) $|x-1| - |y-p| = -1$



$$y = 1 - x + p \rightarrow ax + b = 0 \rightarrow x = -b/a$$

1.