

نفسه بدل
(1)

$$Df(x) = [-2, 2] \quad Df(1) \xrightarrow{+2} \begin{bmatrix} -2 & 2 \\ +2 & +2 \end{bmatrix}$$

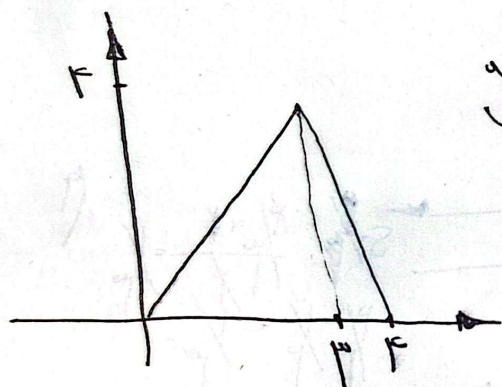
نفسه بدل
(الف)

$$Df(x) = [-2, 2] \quad 1) f(1) \xrightarrow{+2} [-2, 2] \xrightarrow{\times \frac{1}{2}} [-1, 1]$$

$$Df(1) = [-2, 2] \quad Df(x) \xrightarrow{\times 3} [-12, 12] \xrightarrow{-4} [-16, 8]$$

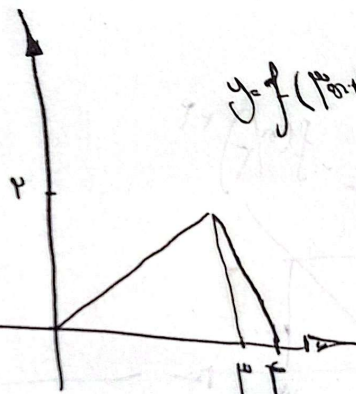
$$f(x) = x + \sqrt{x-2} \xrightarrow{\text{تفاضل}} f'(x) = 1 + \frac{1}{2\sqrt{x-2}} \rightarrow y - 1 + \frac{1}{2\sqrt{y-2}} = 1$$

$$y = y - 1 + \frac{1}{2\sqrt{y-2}} \quad \sqrt{y-2} = 1 \quad \sqrt{y-2} = 1 \Rightarrow y = 3$$



$$y = pf(x_{n+1})$$

$$\int_0^p \frac{p-x}{p} dx = \frac{p}{2}$$



$$y = pf(x_{n+1})$$



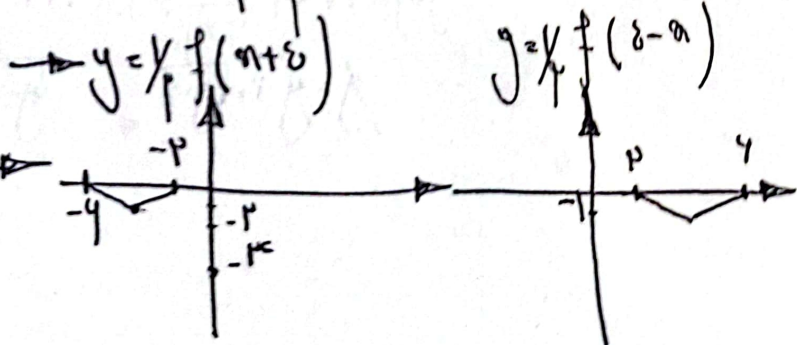
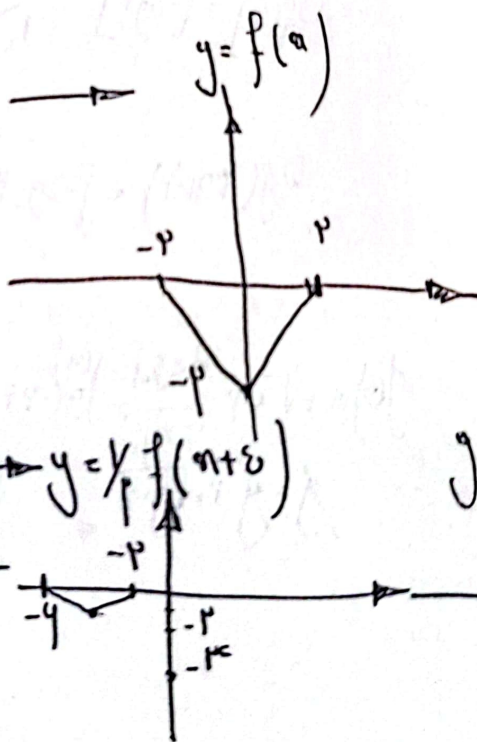
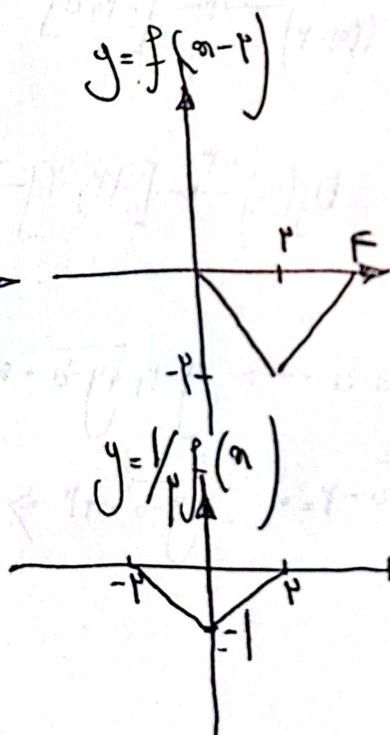
$$y = \sum_{k=0}^{n-1} pf(x_{k+1})$$

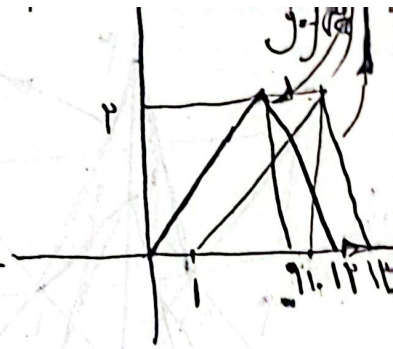
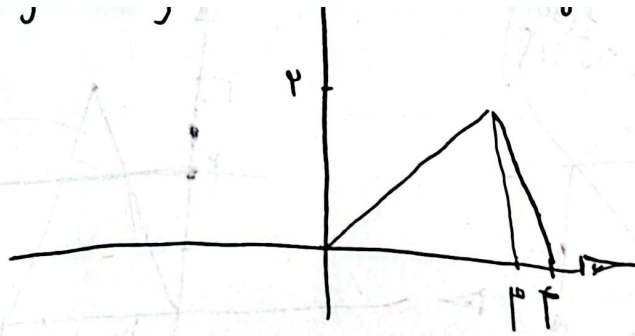
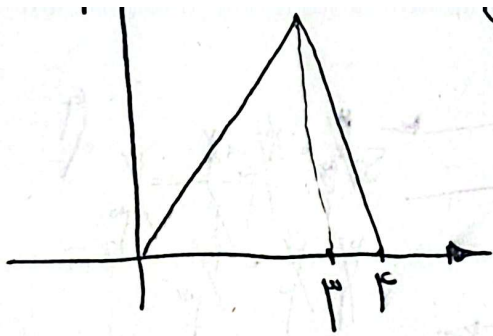
$$-p \quad 0 \quad 1 \quad p \quad 1$$

1

A.

$$\varphi(F+a) - 1 = 1 + \varphi a = 1 + a \Rightarrow a = -\varphi$$

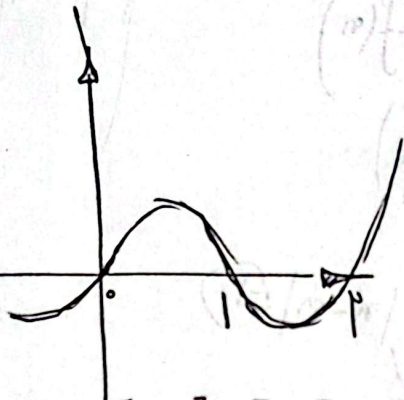
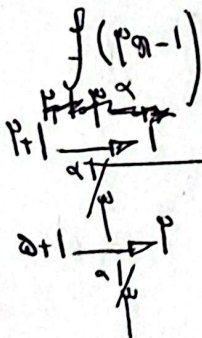




$$\frac{p-1 \cdot p}{p} = 1$$

$$\eta + p = 0$$

$$\eta = -p$$



$$D_y = [-p, 0] \cup [0, p]$$

$$f(\eta) = \frac{p(\eta - p)}{\eta + 1} \rightarrow f'(\eta) = \frac{p(\eta - p + k) - p}{\eta + 1}$$

	-p	0	1	p	(y)
$(\eta + p)$	-	+	+	+	+
$f(\eta - 1)$	-	-	+	-	+
$\Rightarrow -(\eta + p)$	-	+	-	+	-
$f(\eta - 1)$	-	+	-	+	-

$$|p - p| + 1 = |p - p + k| - p$$

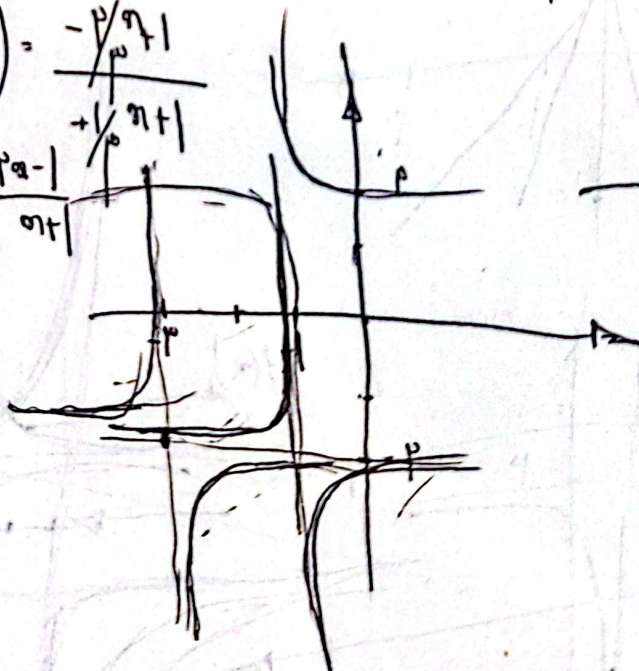
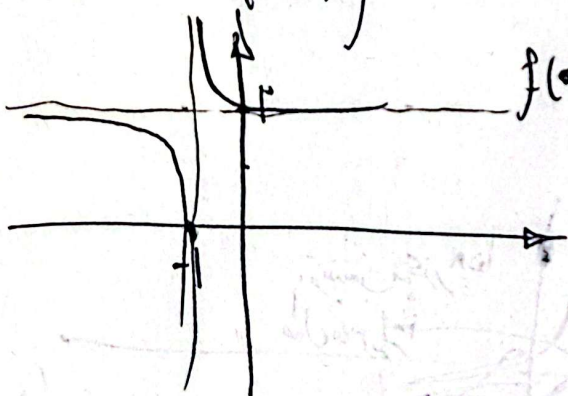
$$\eta = 0$$

$$p - |p + k| - p \Rightarrow 4 = |-p + k|$$

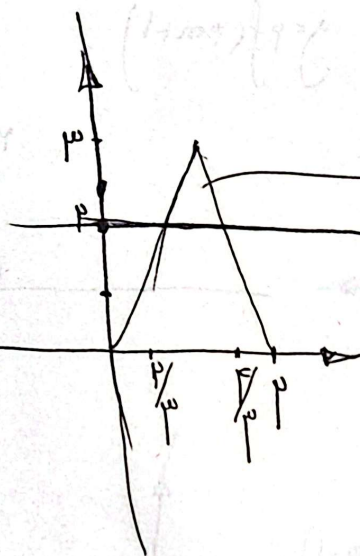
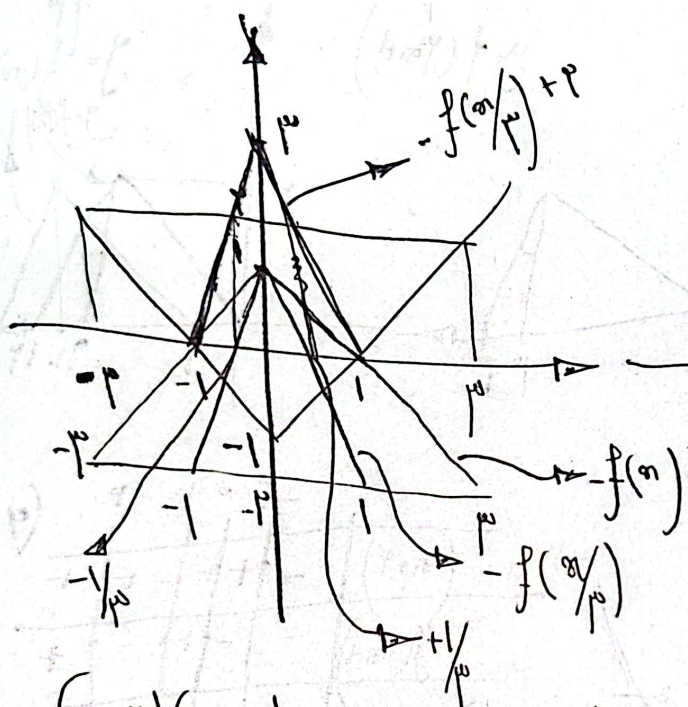
$$\Rightarrow k = 9 \quad k = -9 \Rightarrow k = 9$$

$$f(\eta) = -\left(\frac{p(\eta - 1)}{\eta + 1}\right) \rightarrow f(\eta) = \frac{-p/\eta + 1}{+1/\eta + 1}$$

$$f(\eta) = \frac{p - 1}{\eta + 1}$$



$$\rightarrow p, f$$



$$S \cdot \frac{p}{p} = \frac{p}{p} \cdot \frac{p}{p} = \frac{p}{p}$$

$$\frac{(a-p)(a-p)}{p} + \frac{\epsilon}{p} \rightarrow |x-a| \cdot p$$

$$\left(\frac{a-p}{p} \right)^p = \frac{1}{p} \Rightarrow a=p \Rightarrow f\left(\frac{1}{p}\right) = \left| \frac{1}{p} - p \right| - p = \left| \frac{1-p}{p} \right| - p = \frac{1-p}{p} - p = \frac{1-p-p^2}{p}$$