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نشر جدول
(1)

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

نشر جدول

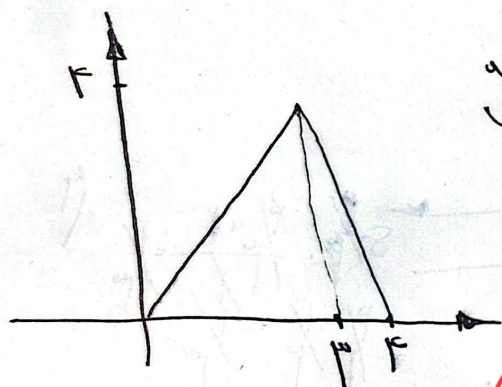
$$Df(x) = [-2, 2] \quad 1) f(1) \xrightarrow{+2} [-2, 2] \xrightarrow{\times \frac{1}{2}} [-1, 1] \quad (1) \text{ الف}$$

(2)

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

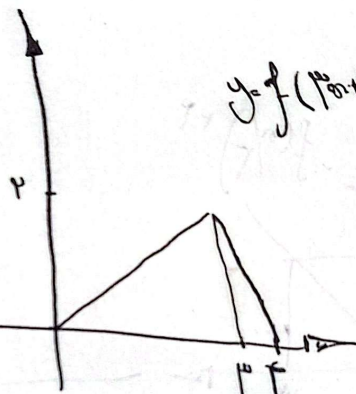
$$f(x) = x + \sqrt{x-2} \xrightarrow{\frac{d}{dx}} f'(x) = 1 + \frac{1}{2\sqrt{x-2}} \rightarrow y - 1 + \frac{1}{2\sqrt{y-2}} = 1$$

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

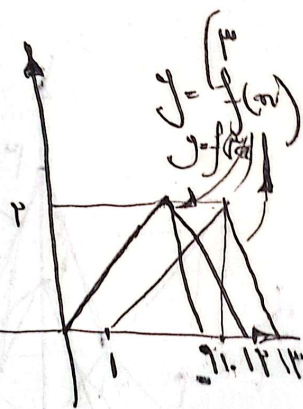


$$y = pf(x_{n+1})$$

$$p \cdot 1 = p \quad \text{and} \quad \frac{p \cdot p}{p} = p$$



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

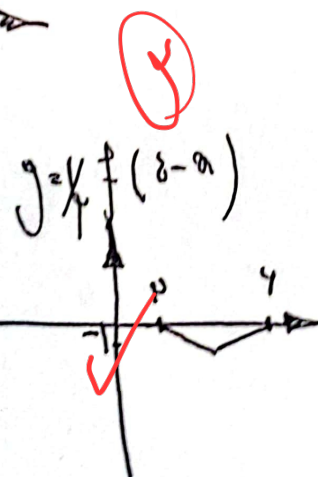
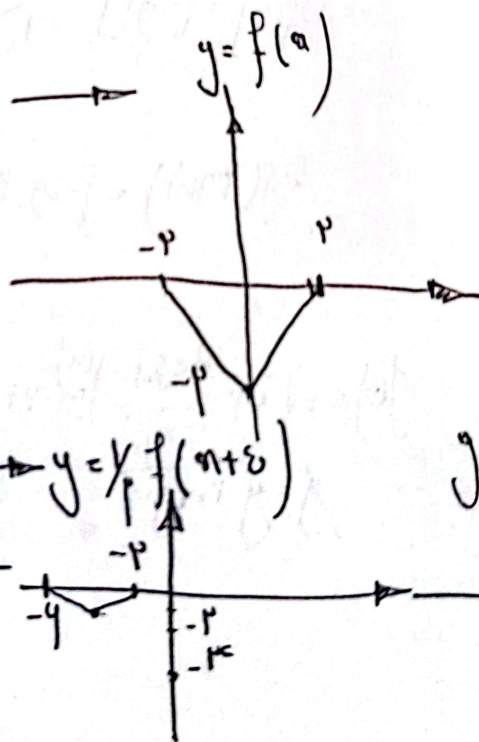
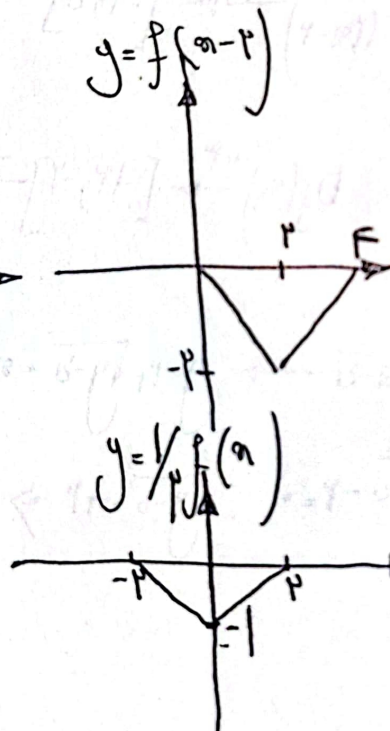
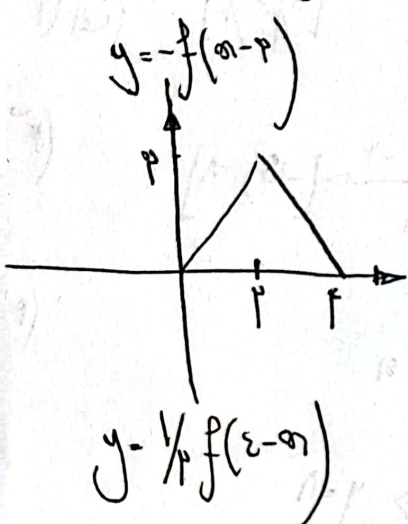


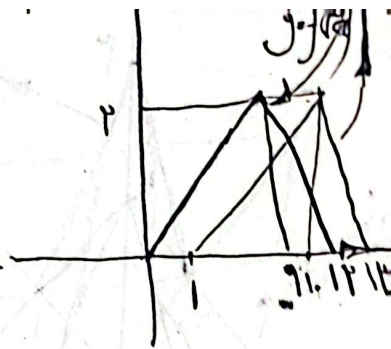
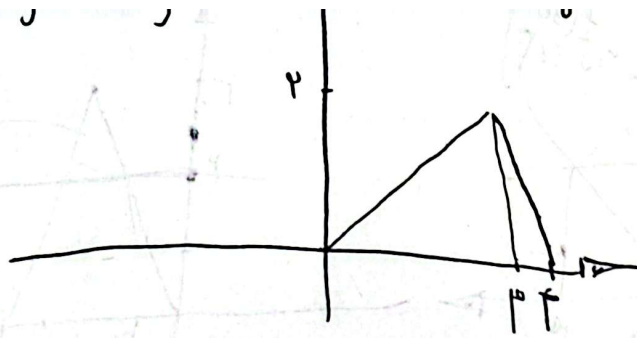
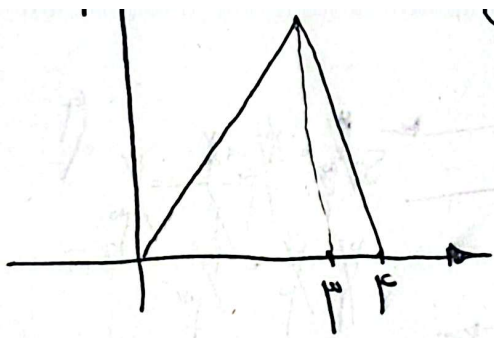
$$y = pf(x_{n+1})$$

$$y = f(x) \rightarrow \cancel{f(a)} \quad \cancel{-\frac{1}{p} \cdot y} \rightarrow \cancel{y} \quad -y + a/p \quad (1,0)$$

$$y = a + p f(x - a/p) = p(a/p + f(x - a/p)) = p(a/p + f(\frac{x-a}{p})) \quad p(p + a/p) = x + a$$

$$p(F+a) - 1 = 1 + pa = 2 + a \Rightarrow a = -1 \quad a - 1 = p(a+1) - 1 \rightarrow a = -1$$

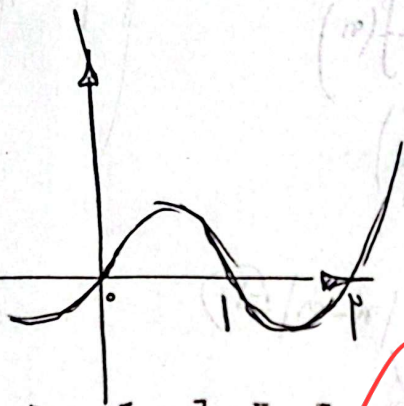
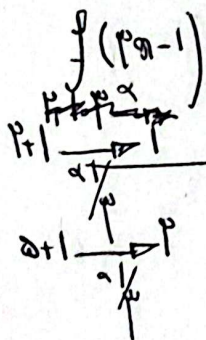




$$\frac{p-1 \cdot p}{p} \cdot \frac{p}{p} = 1$$

$$n+p=0$$

$$n=-p$$



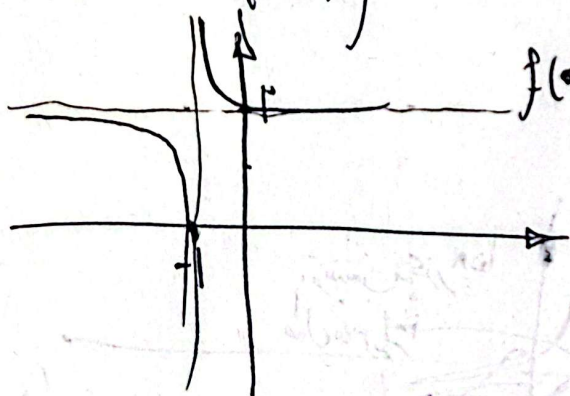
$$D_y = [-p, 0] \cup [1, p]$$

$$f(pn-p) \rightarrow f'(n) = |pn-p+k|-p$$

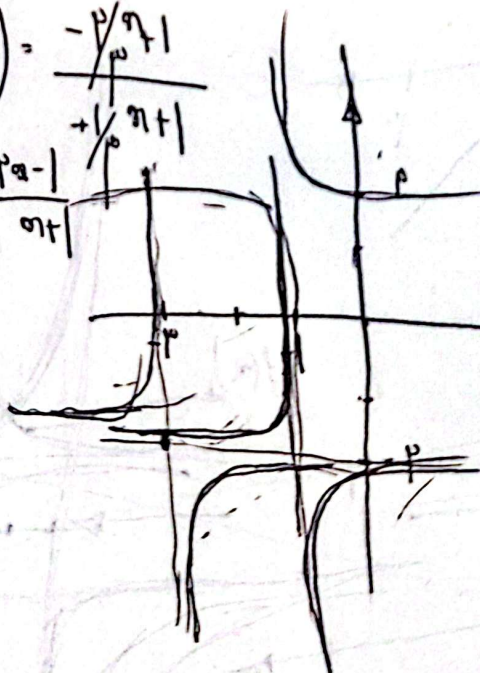
$$g(n) = |p(n+k)-p|-p$$

$$g(n) = |pn+pk-p|-p$$

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



$$f(n) = \frac{pn-1}{n+1}$$



$$p/f$$

$$p$$

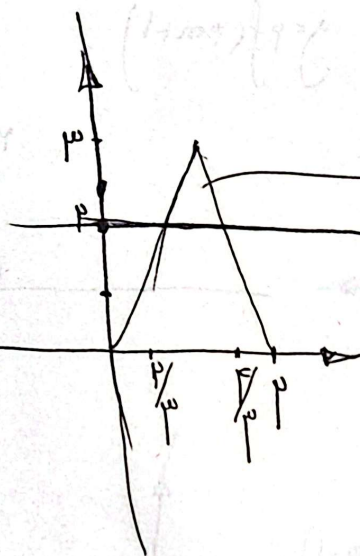
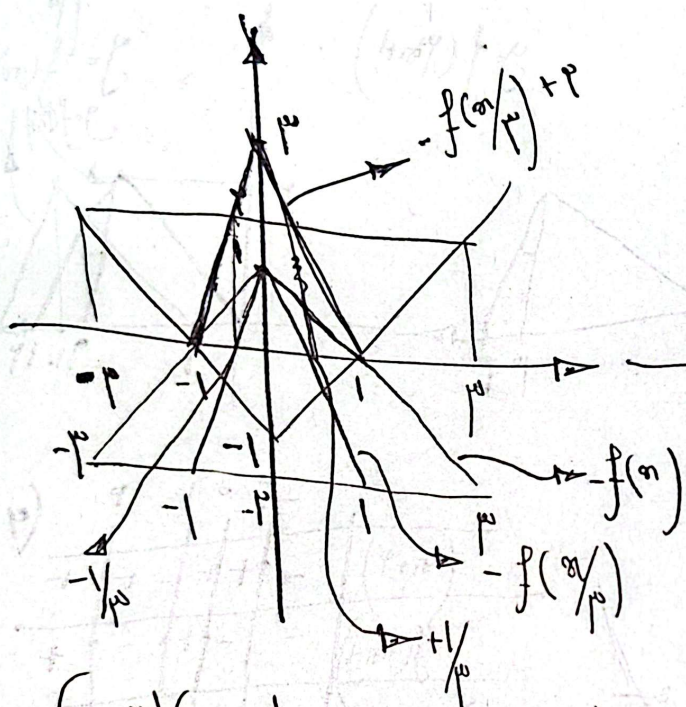
	-p	0	1	p	(y)
$(n+p)$	-	+	+	+	+
$f(pn-1)$	-	-	+	-	+
$\Rightarrow -(n+p)$	-	+	-	+	-
$f(pn-1)$	-	+	-	+	-

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

$$n=0 \quad p, -p+k|-p \Rightarrow 4 = |-p+k|$$

$$\Rightarrow k=9 \quad k=0 \Rightarrow k=9$$

$$k = \frac{9}{p} = 2.5$$



$$S \cdot \frac{1}{p} = \frac{1}{p} \cdot \frac{1}{p} = \frac{1}{p^2}$$

(5)

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

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

(5)