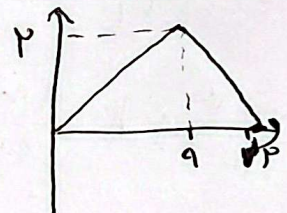


الف (ف) وحده

$$= [-\varepsilon, +]$$

$$2 - 1 + \sqrt{y - 1} = x$$

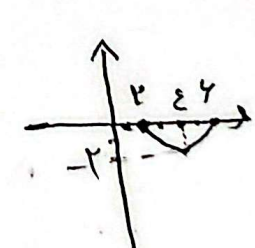


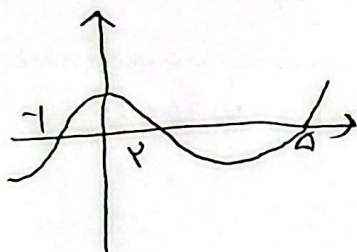
$$g = a + r f\left(\frac{x-a}{r}\right)$$

$A'(-2, -1)$

$$Q = 1 + P_a - 1 = P_a$$

$$Pa = a + Pf(p) \Rightarrow Pa = a - 4 \Rightarrow \boxed{a = -4}$$





$$y = \sqrt{-(x+2)f(x-1)}$$

$$\begin{aligned} 2x-1 &= 0 \Rightarrow x=1 \\ 2x-1 &= 2 \Rightarrow x=1.5 \\ 2x-1 &= -1 \Rightarrow x=0 \end{aligned}$$

x	-2	-1	0	1	2	...
y	-	+	+	-	+	-

$$D_y = [-2, 0] \cup [1, 2]$$

$$f(x) = |2x-1|+1$$

$$\begin{aligned} f(x+k) &= |2(x+k)-1|+1 \\ &= |2x+2k-1|+1 \end{aligned}$$

$$f(x+k)-1 = |2x+2k-1|$$

$$|2x+2k-1|-1 = |2x-1|+1 \Rightarrow |2k-1|-1 = 2$$

$$\begin{aligned} k > \frac{3}{2} & \Rightarrow 2k-1-1=2 \Rightarrow 2k=4 \Rightarrow k=2 \\ k < \frac{3}{2} & \Rightarrow -2k+1-1=2 \Rightarrow -2k=2 \Rightarrow k=-1 \end{aligned}$$

$$f(x) = \frac{2x-1}{x+1}$$

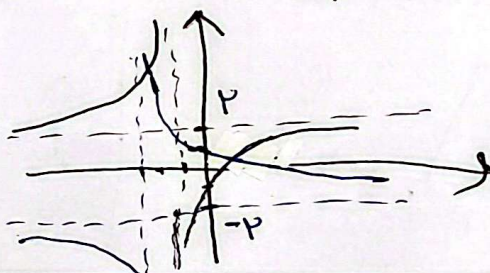
$$-f(x) = \frac{-2x+1}{x+1}$$

$$-f\left(\frac{x}{p}\right) = \frac{-2x+1}{x+1}$$

$$-f\left(\frac{x}{p}\right)+h = \frac{-2x+1}{x+1}+h$$

$$\frac{-2x+1}{x+1}+h = \frac{2x-1}{x+1}$$

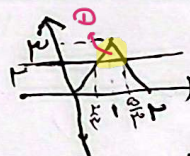
$$h=2$$



$$y = -f\left(\frac{x}{p}\right)+2$$

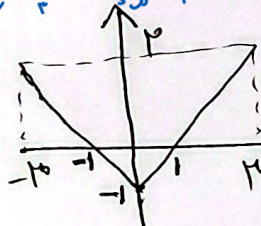
$$y = f(x-1)$$

$$y = -f(x-1)$$



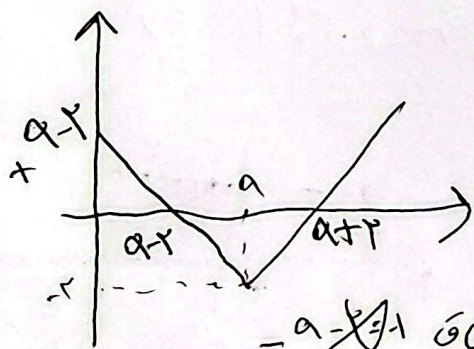
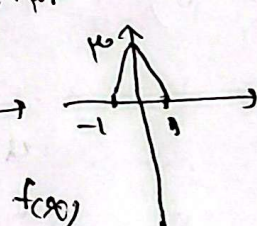
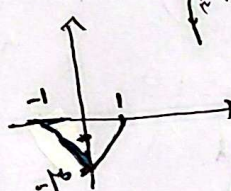
$$\frac{1}{p} = \frac{1}{p} = 1$$

$$\frac{h}{h} = \frac{1}{1} \rightarrow \frac{S_1}{S_2} = \frac{1}{1} \rightarrow \frac{S_1}{S_2} = \frac{1}{1} \rightarrow S_1 = S_2$$



$$y = -f(x)$$

$$-f(x)$$



$$\frac{(a-1)^2}{2} + \frac{(a+1)(a+1)(1)}{2}$$

$$\frac{a^2-2a+1}{2} + \frac{a^2+2a+1}{2} = \frac{2a^2+2}{2} = a^2+1$$

$$a^2-2a+1=0$$

$$a=1$$

$$f\left(\frac{1}{p}\right) = \frac{1}{p}$$