

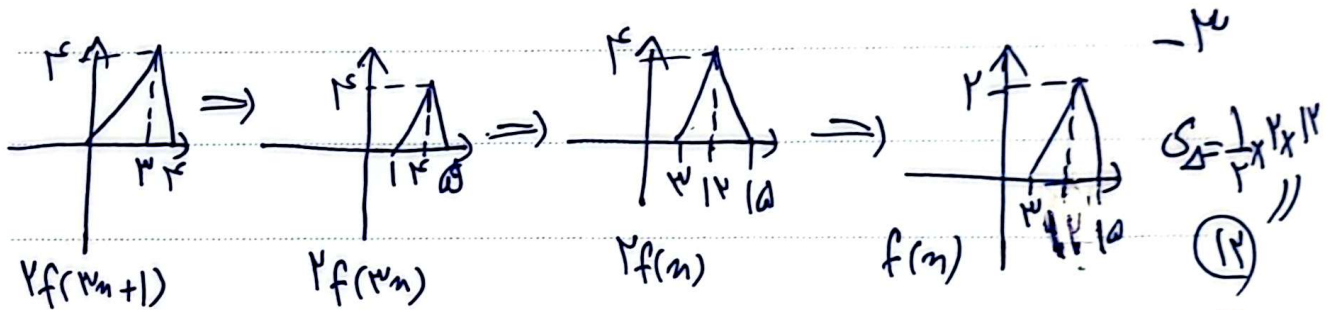
الف)  $- \frac{1}{3} \times 15 \times 15 \div 3 \rightarrow - \frac{1}{3} \times 15 \times 15 \div 3 \rightarrow - \frac{1}{3} \times 15 \times 15 \div 3$

ب)  $- \frac{1}{3} \times 15 \times 15 \div 3 \rightarrow - \frac{1}{3} \times 15 \times 15 \div 3 \rightarrow - \frac{1}{3} \times 15 \times 15 \div 3$

$f(x) = x + \sqrt{x-1}$   $\xrightarrow{\text{نقطة بـ } x=1}$   $f(1-1) = (1-1) + \sqrt{1-1} = 0$

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

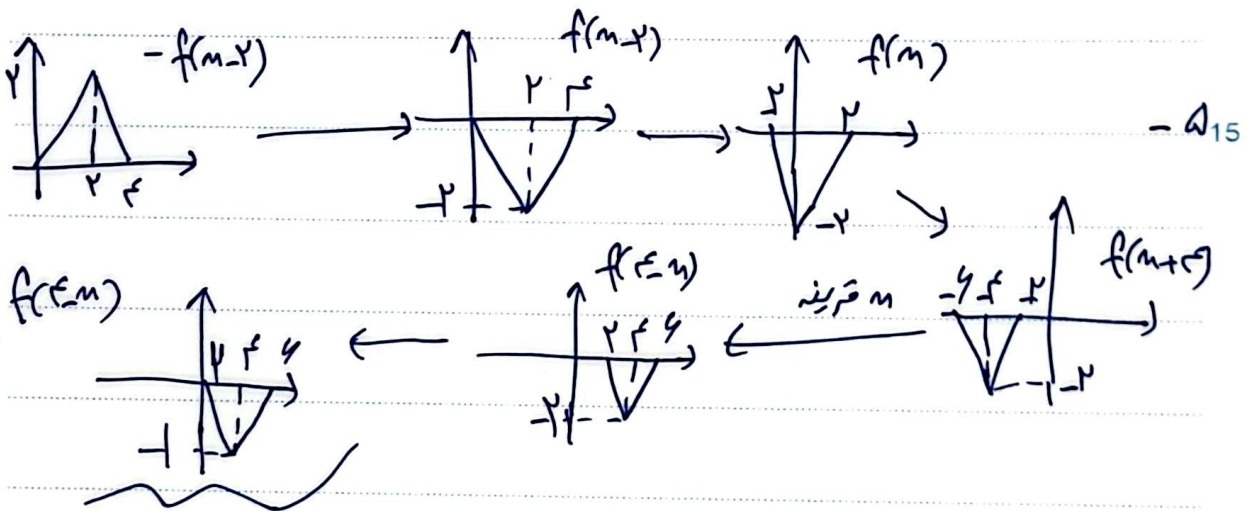
$\rightarrow y=1 \rightarrow y=2 \rightarrow x=1 \Rightarrow$  نقطة بـ  $(1, 1)$



$f(x) = -x$   $A'(n, y) \xrightarrow{y=x-1} A \mid x=n-1$   $x = -y + 1$

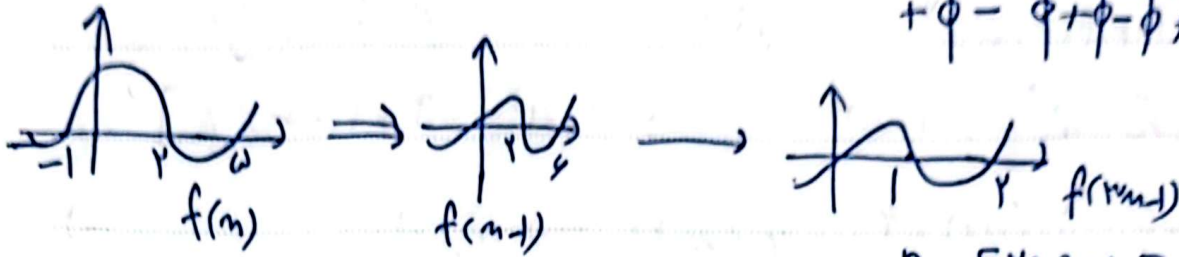
$f\left(\frac{n-a}{y}\right) = \frac{y-a}{y} \rightarrow f(n') = \frac{n-a-1-1}{y} = \frac{n-2a-1}{y} = -x$

$n' = \frac{n-a}{y} \Rightarrow y = \frac{n-a}{n'} = \frac{n-a}{n-1} = 1 \Rightarrow n-a = n-1 \Rightarrow a = 1$



$$-(n+2) \times f(n+1) \xrightarrow{x-1} (n+2) f(n+1) \text{ is } -2$$

$$\begin{array}{ccccccc} & -2 & 0 & 1 & 1 & -2 & \\ + & \phi & - & \phi & + & \phi & - \end{array}$$



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

$$f(n) = |2(n+k) - 3| + 1 - 2 \Rightarrow g(n) = |2n + 2k - 3| - 2$$

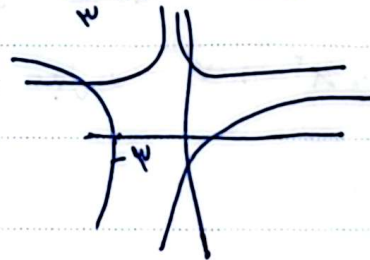
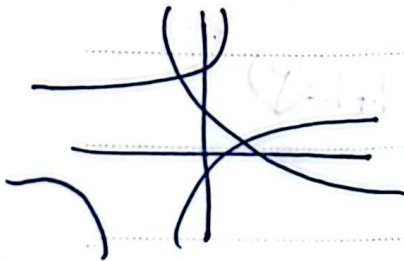
$$y \text{ is odd} \Rightarrow n=0 \Rightarrow |2(0) - 3| + 1 = 2 = |2(0) + 2k - 3| - 2 \Rightarrow 4 = |2k - 3| - 2$$

$$\textcircled{1} \boxed{k = \frac{7}{2}} \leftarrow 4 = 2k - 3$$

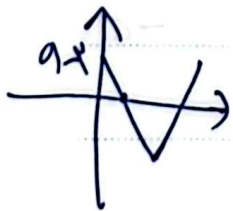
$$\textcircled{2} \boxed{k = \frac{5}{2}} \leftarrow -4 = 2k - 3$$

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



مقدار را در ۱۵  
و امدن بالا ببریم.



$$a+2-a+2 = 4: 0 \times 6 \rightarrow 10$$

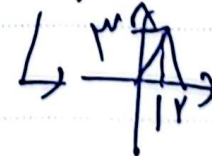
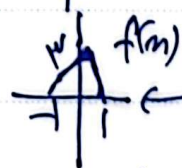
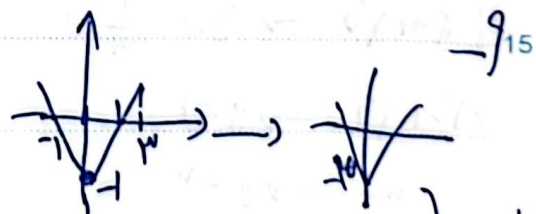
$$\frac{4}{2} = 2: \text{ (تعداد)}$$

$$60 + 60 = \frac{9}{2} \rightarrow 9 \frac{2+3-5a}{2} + \frac{1}{2}$$

$$\leftarrow a^2 - 5a + 6 = 0 \quad \frac{1}{2} \quad \frac{9}{2}$$

$$f(n) = |n-1| = 1$$

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



$$\frac{1}{2} = 2 \Rightarrow \frac{1}{2} = 2$$

$$\textcircled{1} \textcircled{2} \textcircled{3} a=1$$

$$\textcircled{1} \textcircled{2} \textcircled{3} a=2$$