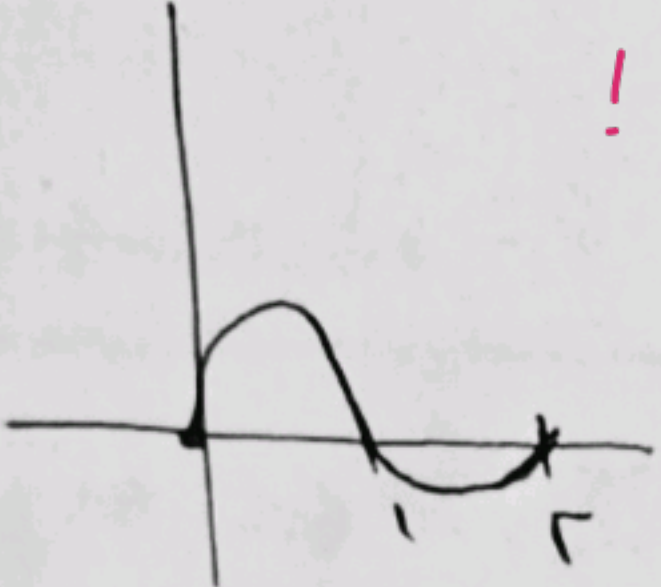


$f(x_{n-1}) \Rightarrow$ 
 $! - \text{نقطه}$ $(-x+r, f(x_{n-1}))$ $-r \ 0 \ 1 \ r$ $- \mid + \mid - \mid +$ $(1,0)$

$- (x+r) f(x_{n-1}) \geq 0$
 $\Rightarrow (n+r) f(x_{n-1}) \leq 0 \Rightarrow D_f = (-\infty, -r] \cup [0, 1]$

$-r \ 0 \ 1 \ r$
 $- \mid + \mid - \mid +$
 $D_f: [-r, 0] \cup [1, r]$

$f(x) = |x - r| + 1 \rightarrow g(x) = |x(n+k) - r| + 1 - r$

$n=0 \rightarrow |r| + 1 = |rk - r| - r \Rightarrow r+r = |rk - r| \Rightarrow r = |rk - r|$

$\Rightarrow r = rk - r \rightarrow k = r/a \quad k > 0$
 $-r = rk - r \quad k = -1/a$

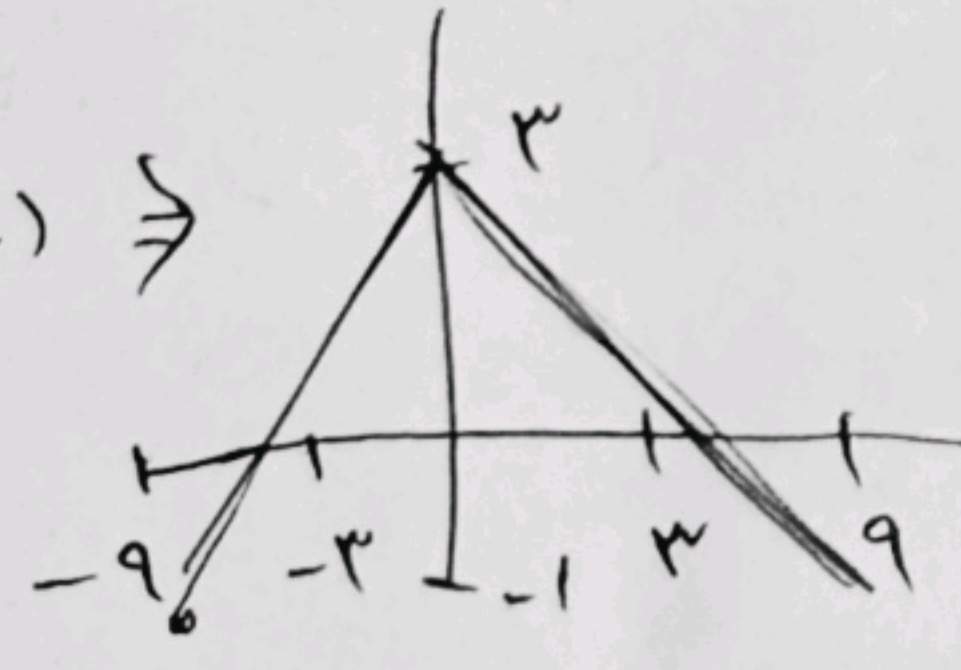
$k = r/a$

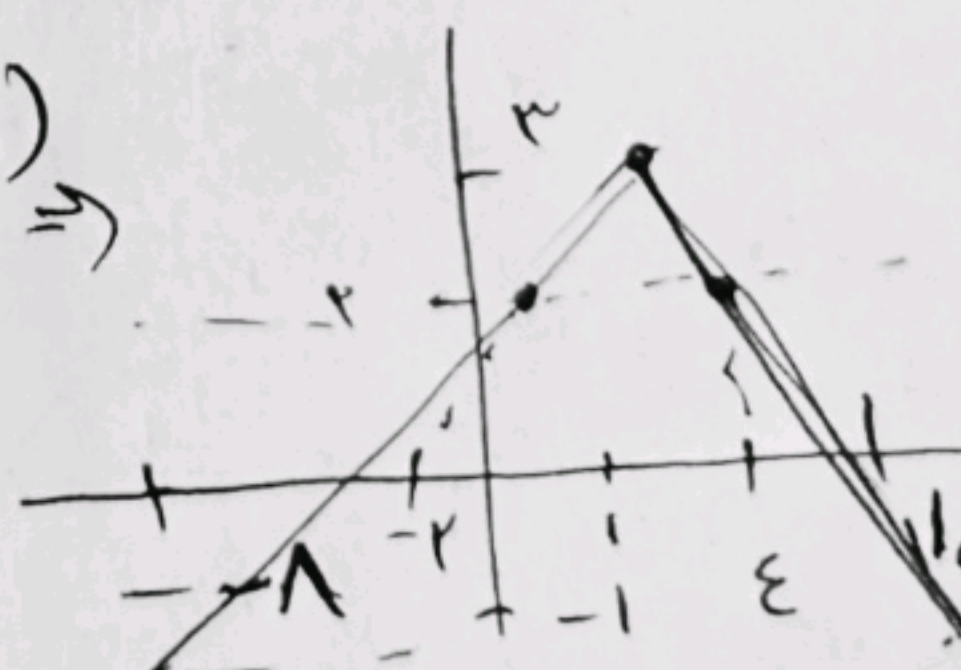
$f(x) = \frac{r^n - 1}{n+1}, \quad f'(x) = \frac{r^n - r}{n+1}$

$\Delta \geq 0, x \leq -1$
 $\Delta > 0, x < -r$
 $\Delta = 0$

$\Rightarrow$ راجه به سمت بالا

$(k - r)x^2 + \epsilon n(k-1) + r(k+r) \leq 0$
 $\rightarrow k < \epsilon$

$f(x) \Rightarrow$ 

$\Rightarrow f(x_{n-1}) \Rightarrow$ 

$\epsilon - (-r) = r$

$\frac{r \times 1}{r} = r = S$

$\frac{h_1}{h_{j'}} = \frac{1}{r} \rightarrow \frac{S_1}{S_{j'}} = \frac{1}{r} \rightarrow \frac{S_1}{r} < \frac{1}{r}$
 $S_{j'} = \frac{r \times r}{r} = r$

$S = \frac{(a-r)^r}{r} + \frac{(a-r - (a+r)) \times \frac{1}{a}}{r} = r/a$

$\left(\frac{a-r}{r}\right) = \frac{1}{r} \Rightarrow a-r = 1 \Rightarrow a = r$

$f\left(\frac{1}{a}\right) = \left|\frac{1}{r} - r\right| - r = \frac{r}{r}$

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خوبه ها من وقت از دافندی $f(n)$ مصب مرکز منقار عبارت دافند (است) دافند منقار B دافند $6, 4$

الف) $-4 \leq x \leq 2 \Rightarrow -14 \leq 3x - 2 \leq 4 \Rightarrow D' = [-14, 4]$ (۱)

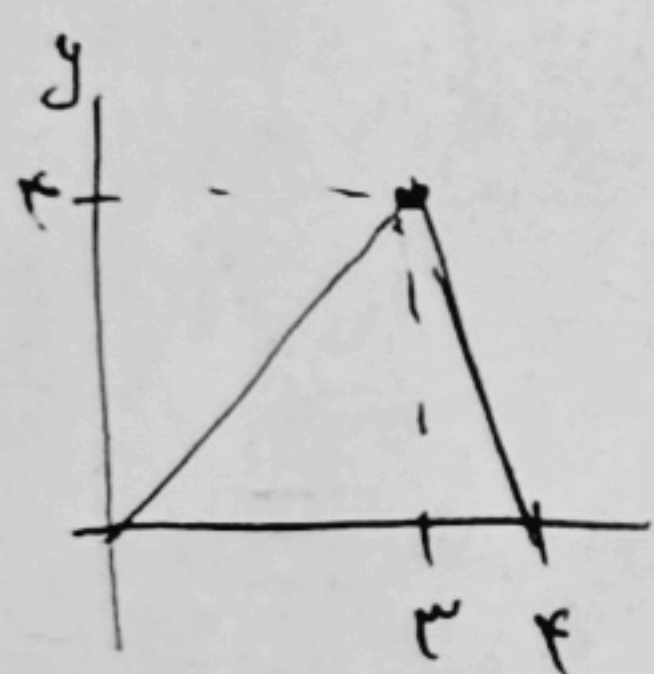
ب) $-4 \leq 3x - 2 \leq -2 \Rightarrow -2 \leq 3x \leq 0 \Rightarrow -\frac{2}{3} \leq x \leq 0 \Rightarrow D' = [-\frac{2}{3}, 0]$
 $-2 \leq 3x \leq -2 \Rightarrow -1 \leq x \leq -1 \Rightarrow -1 \leq 3x - 2 \leq -1$

$f(n) = n + \sqrt{n-2} \rightarrow f'(n) = n - 2 + \sqrt{n-2}$

تقارن بخور: طول منقار برابر بود

$n - 2 + \sqrt{n-2} = n \Rightarrow \sqrt{n-2} = 2 \Rightarrow n - 2 = 4 \Rightarrow n = 6$

$A \mid \wedge \rightarrow y' = 1$

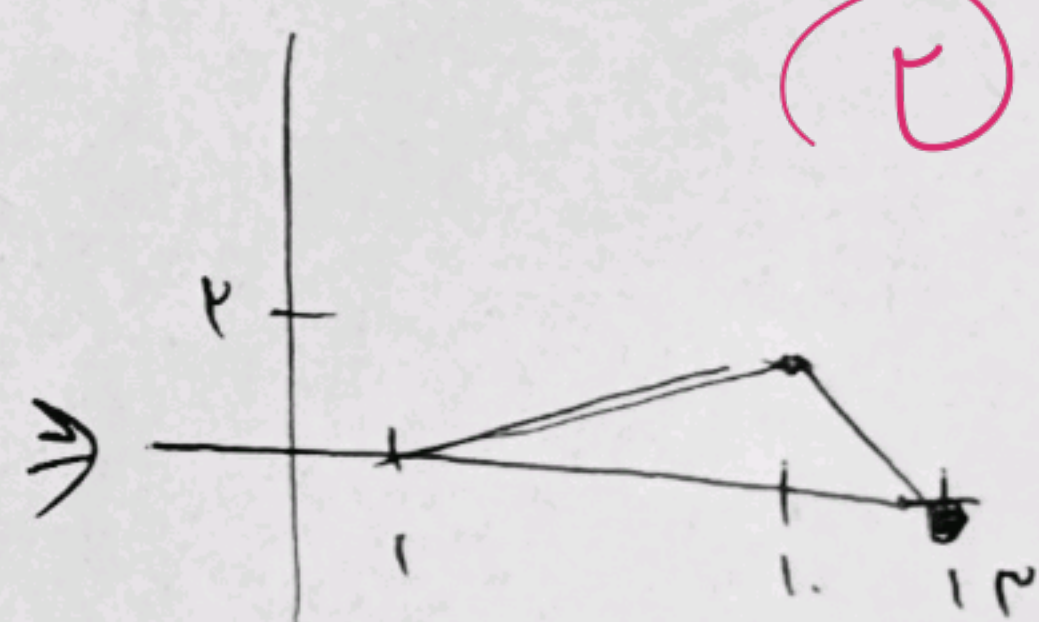


$g(n) = 2f(3n+1)$

$g(2) = 4 \Rightarrow f(7) = 2$

$g(4) = 0 \Rightarrow f(13) = 0$

$g(0) = 0 \Rightarrow f(1) = 0$



$\Rightarrow S = \frac{1 \times 2 \times 12}{2} = 12$

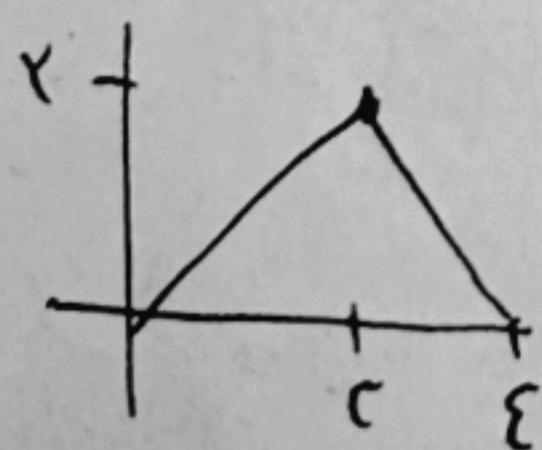
$A \mid \begin{matrix} 2 \\ -2 \end{matrix} y = a + 2f(\frac{n-a}{2}) \Rightarrow \frac{y-a}{2} = f(\frac{n-a}{2}) \Rightarrow n-a = 4$
 $y-a = -4$

$\Rightarrow n = 4 + a$
 $y = a - 4$

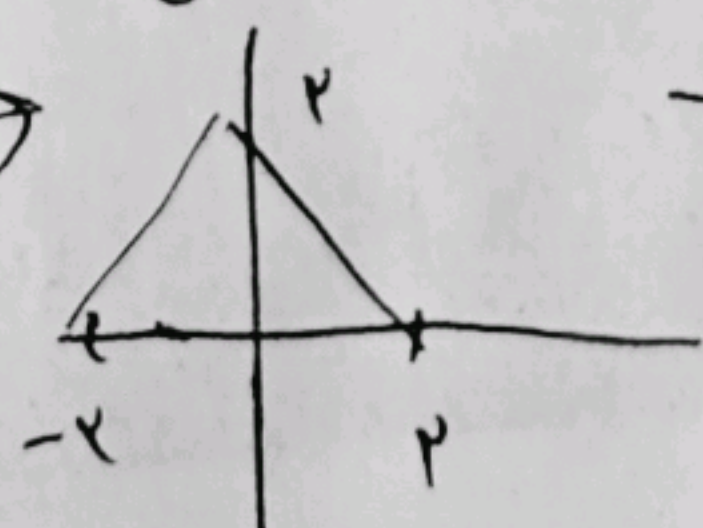
$y = 2n - 1$

$a - 4 = 2a - 1 \Rightarrow a = -3$

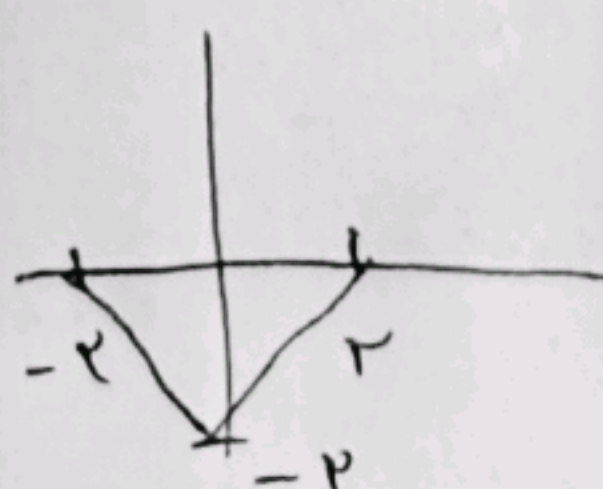
$y = -f(n-2)$



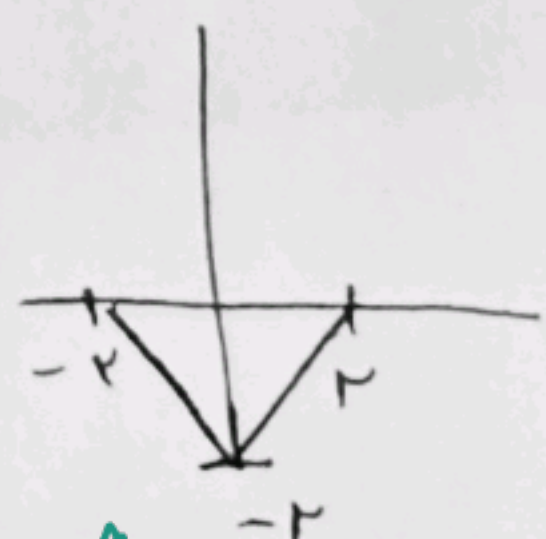
$y = f(n)$



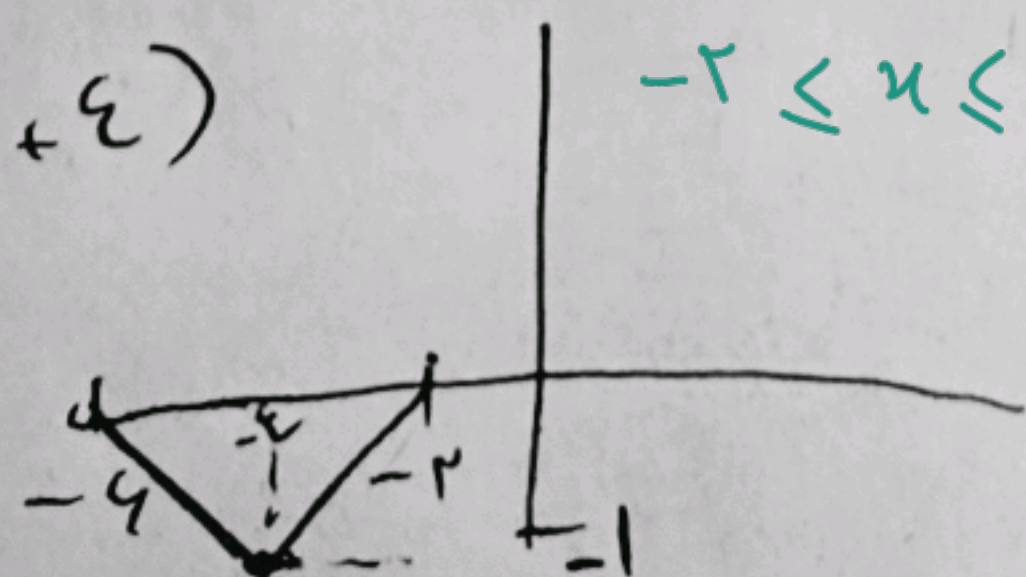
$y = f(n)$



$y = f(-x)$ (۱)



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



$-2 \leq x \leq 2 \rightarrow 2 \leq 4-x \leq 6$

سجده

