

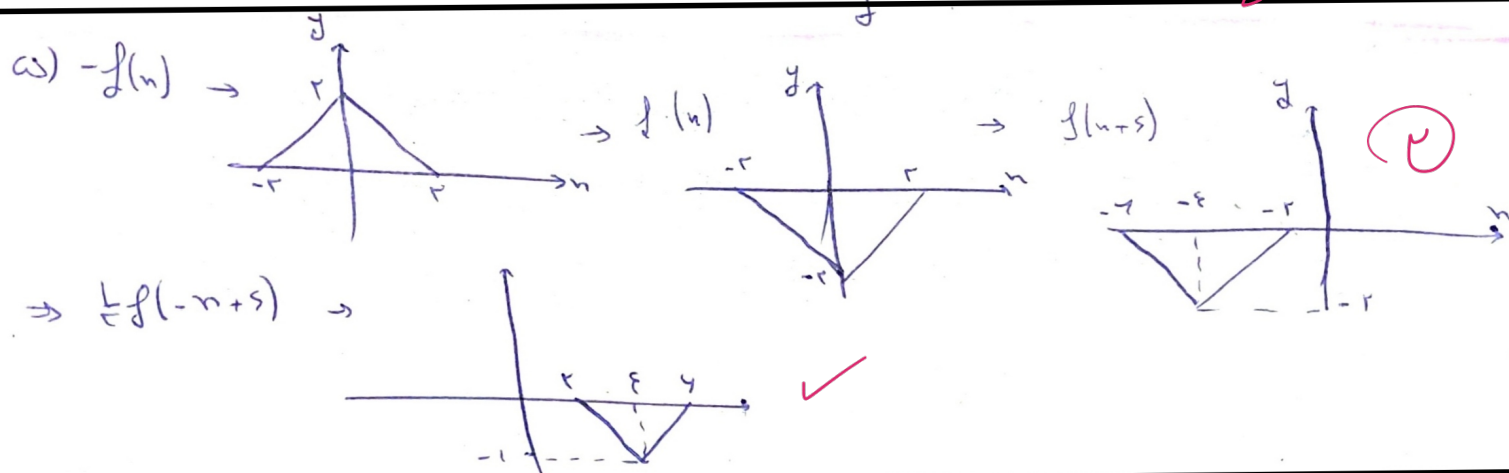
1) $\omega] - \varepsilon \leq r_n - r \leq \varepsilon \Rightarrow n \in [-\frac{\varepsilon}{r}, \frac{\varepsilon}{r}] / \Leftrightarrow n \in [-\varepsilon, -r] \Rightarrow r_n - r \in [-\varepsilon, -1]$ (نقص)!

۲) $n - \epsilon + \sqrt{n - \epsilon} \Rightarrow$ نیازی به درون بردن نیست $\Rightarrow$ معقول $\Rightarrow n - \epsilon + \sqrt{n - \epsilon} = n \rightarrow \sqrt{n - \epsilon} = \epsilon \rightarrow n - \epsilon = \epsilon \rightarrow n = 2\epsilon$ ✓

$12 = 3 \times 4 \rightarrow \frac{3n+1}{\text{طول باز}} \rightarrow \frac{4-0}{\text{طول باز / مانده}} \rightarrow n \in [0, 4] \rightarrow \text{ارتفاع} \rightarrow \frac{4}{2} = 2 \Rightarrow \text{تقریباً ۲ تا ۳} \rightarrow \text{پایه}$

$$g' = \frac{15 \times 15}{r} = 15 \quad \checkmark$$

$$f) \frac{n-a}{r} = r \Rightarrow n = a + r \cdot r = a + r^2 \Rightarrow \underline{a-r} = y \quad \left. \vphantom{\frac{n-a}{r} = r} \right\} \Rightarrow r(a+r) - 1 = a-r \Rightarrow ra = a-r \Rightarrow \underline{a = -r}$$



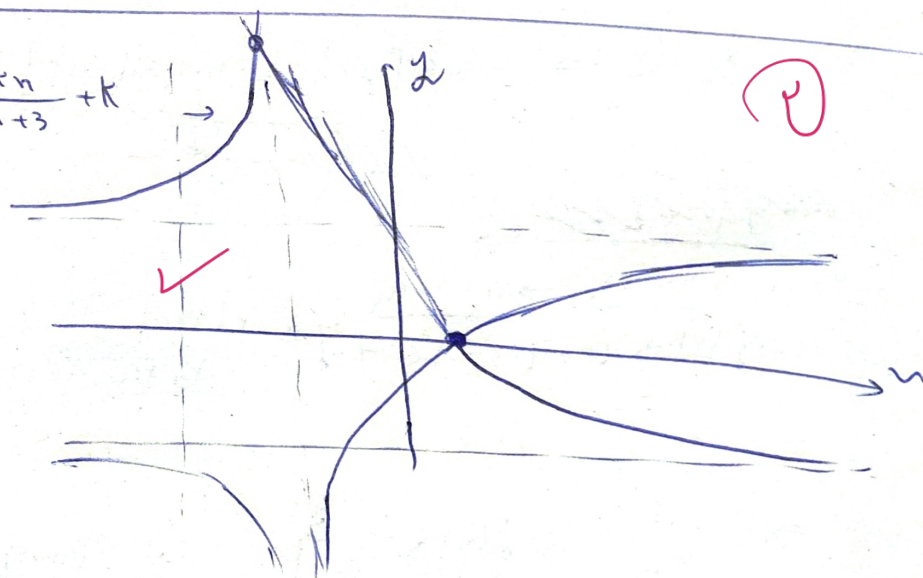
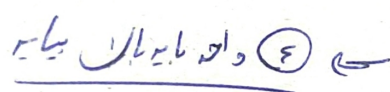
$$4) - (n+r) f(r_{n-1})$$

$$\left. \begin{array}{l} x+r=0 \rightarrow n=-r \\ r_{n-1}=0 \rightarrow n=r \\ r_{n-1}=r \rightarrow n=1 \\ r_{n-1}=-1 \rightarrow n=0 \end{array} \right\} \Rightarrow \begin{array}{ccccccc} & -r & -1 & 1 & r & & \\ & | & | & | & | & & \\ - & | & | & | & | & & \\ & + & - & + & - & & \end{array} \Rightarrow [-r, 0] \cup [1, r]$$

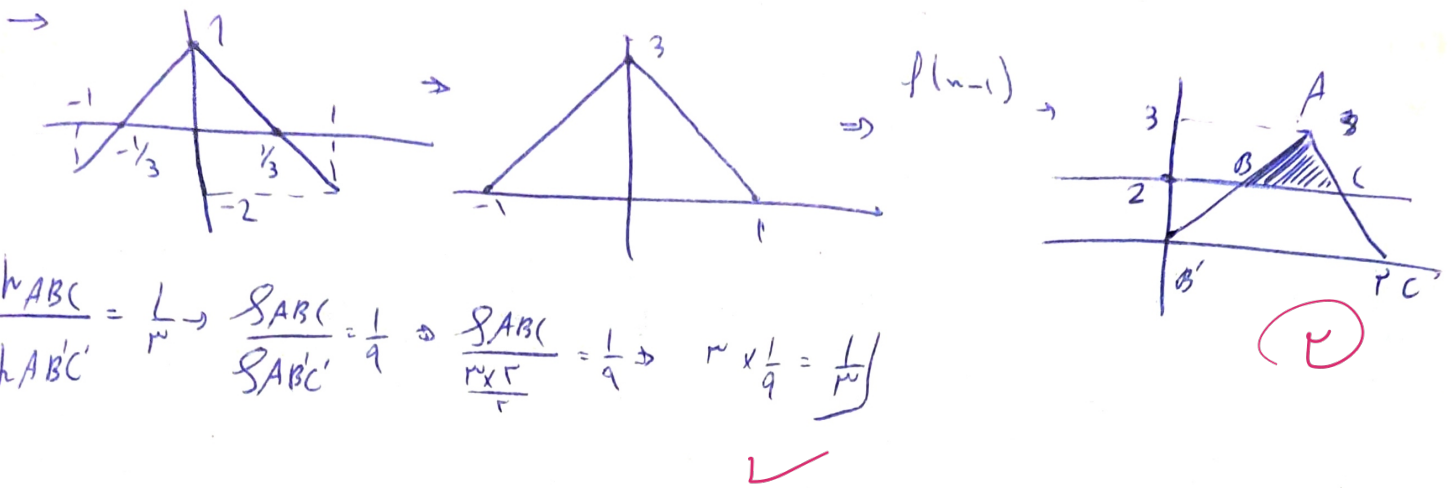
v) $|r(n+k)-3| + 1-3 = |r_n+r_k-3| \cdot r \leq |r_n-3| + 1 \Rightarrow n=0 \rightarrow |r_k-3| \cdot r = 8 \Rightarrow |r_k-3| = 4$

$$PK-3 = \gamma \rightarrow K = \frac{\gamma}{\epsilon/\omega} \checkmark \Rightarrow PK-3 = -1 \rightarrow K = -3/\epsilon \rightarrow \text{OK}$$

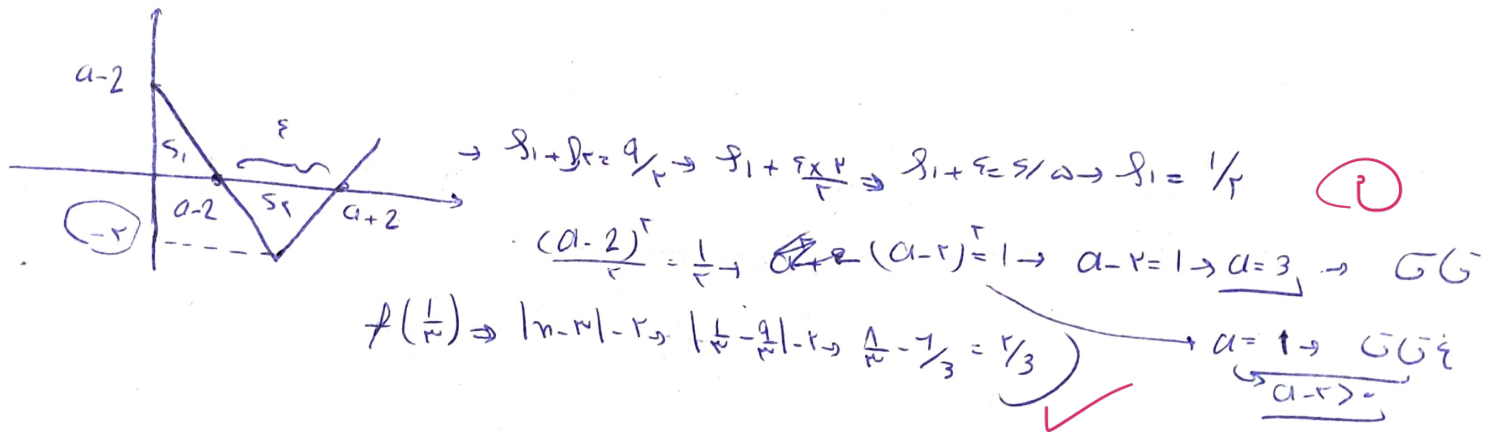
$$1) \quad \frac{1-rn}{n+1} \rightarrow \frac{1-\frac{rn}{3}}{\frac{n}{3}+1} = \frac{r-rn}{n+3} + k$$



9)



10)



۲۰ آفریں! راه صد سدر بنویس!