

Viana

subject :

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عنوان حقیقی دوازدهم

$$1. -1 \left(\frac{1^n + 1}{a} \right) < 1 \Rightarrow -1 \left(1^n + 1 \right) < 1$$

$$-1 \left(1^n \right) < 1 \Rightarrow -1 \left(1 \right) < 1 \Rightarrow D_f = [-1, 1]$$

$$2) \quad 1(-1) - 1 = -2, \quad 1(1) - 1 = 0$$

$$D_f(m) = [-2, 0]$$

$$3) \quad \frac{1(-1)+1}{1} < 1 - \omega n < \frac{1(1)+1}{1} \Rightarrow -1 < 1 - \omega n < 2$$

$$-1 < 1 - \omega n < 2 \Rightarrow -1 < n < 3 \Rightarrow D = [-1, 3]$$

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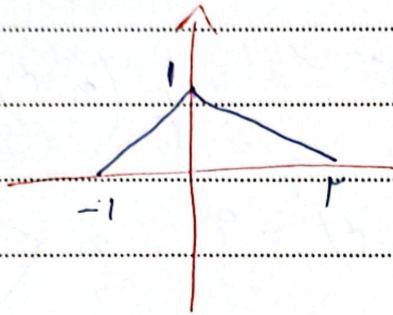
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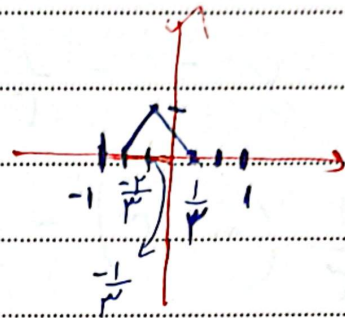
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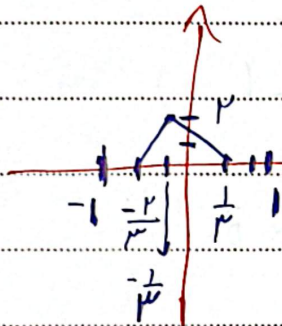
1)



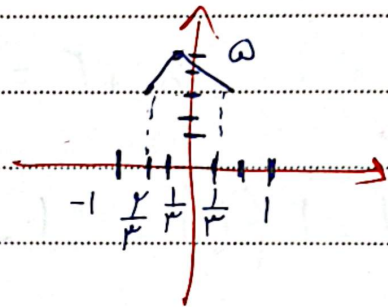
$$f(x_{n+1})$$



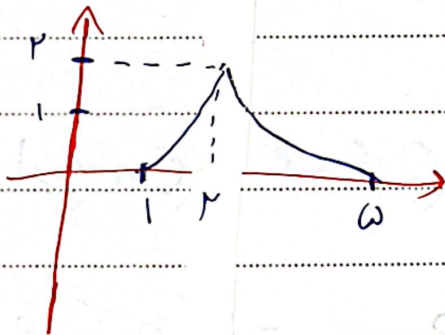
$$n f(x_{n+1})$$



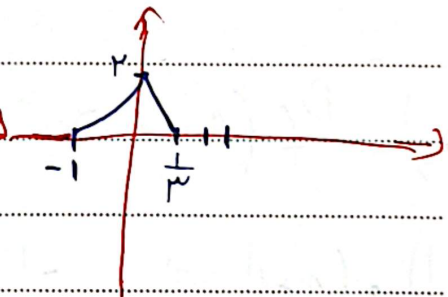
$$n f(x_{n+1}) + n$$



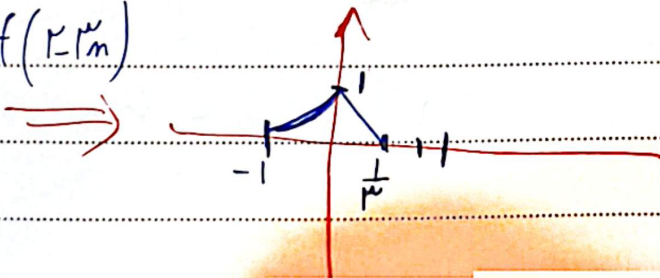
2)



$$f(x - x_n)$$



$$\frac{1}{n} f(x - x_n)$$



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$$4) \quad y = -\frac{1}{r} (n-r)^r + r \stackrel{y=1}{=} -\frac{1}{r} (n-r)^r + r = 1$$

$$-\frac{1}{r} (n-r)^r = -r \stackrel{x=r}{\Rightarrow} (n-r)^r = r^2 \quad n < \sqrt{r}$$

$$5) \quad r_{n+r} = 1 \Rightarrow r_n = -1 \Rightarrow n = -\frac{1}{r} = -9$$

$$1 - r f(1) = 1 - r(r) = -V = B$$

$$\left(-\frac{1}{r}, -V\right) \quad \alpha \beta = \frac{V}{r}$$

$$1) \quad D_f(n-1) = a(n-1) \leq r \Rightarrow a+1 \leq n \quad I$$

$$D_g(n+1) \Rightarrow -1(n+1) < b \Rightarrow -r(n) < b-1 \quad II$$

$$D_{I \cap II} = (-r, a) \Rightarrow b-1 = a \Rightarrow b = 4$$

$$a+1 = -r \Rightarrow a = -r \quad a-b = -r-4 = -9$$

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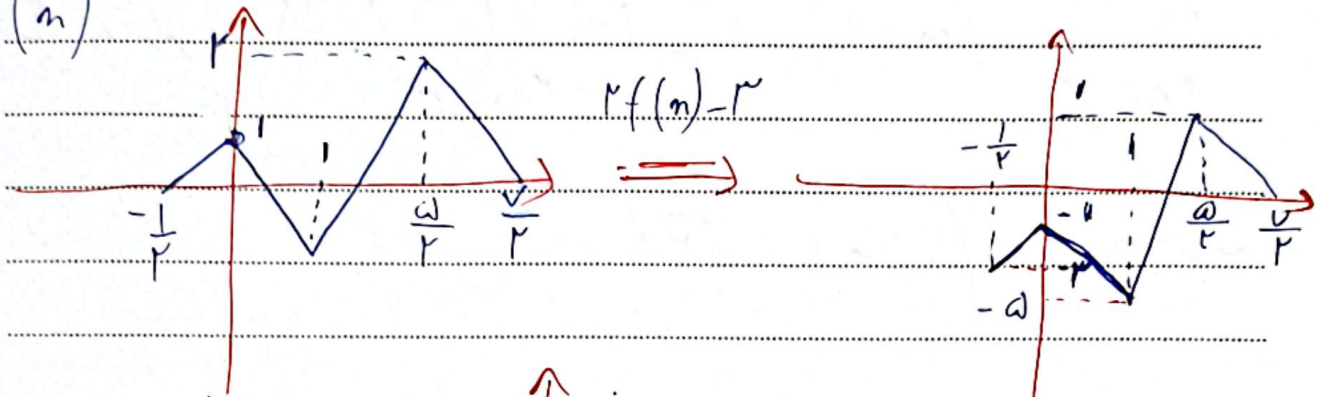
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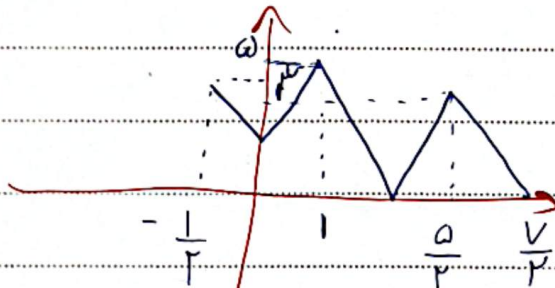
$$9) D_f = \left[-\frac{r}{r} + 1, \frac{a}{r} + 1 \right] \Rightarrow \left[-\frac{1}{r}, \frac{a}{r} \right]$$

$f(n)$



$|rf(n)-r|$

$\Rightarrow$



$$R_{y_r} = [0, \sqrt{a}] \quad \text{and} \quad D_{y_r} = \left[-\frac{1}{r}, \frac{a}{r} \right]$$

$$1.) \left| \frac{(n-r)+1}{r(n-r)+1} \right| + 1 \Rightarrow \left| \frac{n-1}{r_n-r} \right| + 1$$

$n(-1)$

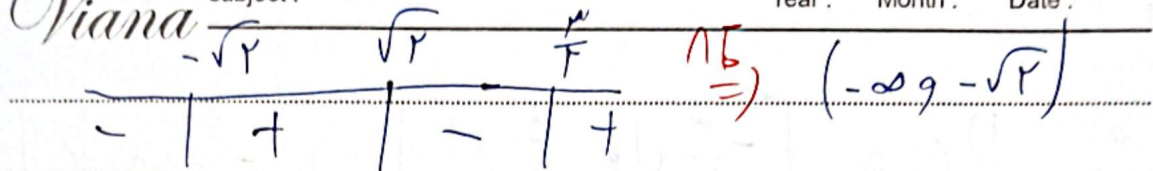
$$n + \left| \frac{n-1}{r_n-r} \right| + 1 \quad \left(\Rightarrow \right) \quad n + 1 \left(\frac{n-1}{r_n-r} (-n-1) \right)$$

$$\Rightarrow \frac{n-1}{r_n-r} - (n+1) \Rightarrow \frac{-r_n-r}{r_n-r}$$

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$$\frac{n-1}{r_{n-3}} > n+1 \Rightarrow \frac{-r_n^2 + r_{n+1}^2}{r_{n-3}}, \text{ معادله برقرار}$$

$$\text{جوابها} = (-\infty, -\sqrt{2})$$

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