

۱۹، ۷۵

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۷ کلاس: روز: ساعت:

$$Df_{(n)} [-2, 2]$$

$$Df\left(\frac{x_{n+2}}{\omega}\right)?$$

$$-2 \leq \frac{x_{n+2}}{\omega} \leq 2 \rightarrow -1 \leq x_{n+2} \leq 2 \rightarrow -12 \leq x_n \leq 18 \rightarrow -4 \leq x \leq 4$$

$$Df\left(\frac{x_{n+2}}{\omega}\right) = [-4, 4]$$

$$Df(x)?$$

$$Df(x_{n+2}) = [-2, 2]$$

$$-2 \leq x \leq 2 \rightarrow -4 \leq x_n \leq 4 \rightarrow -12 \leq x_{n+2} \leq 18$$

$$Df(x) = [-12, 18]$$

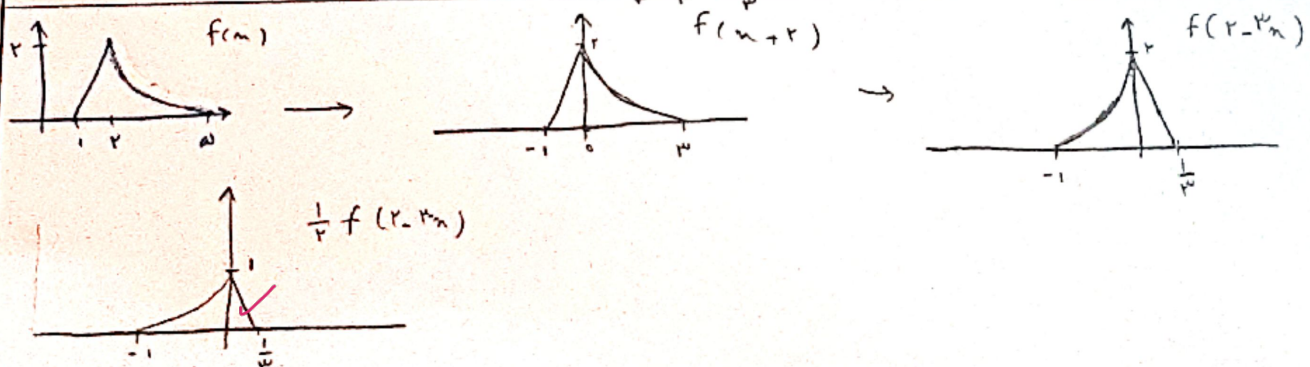
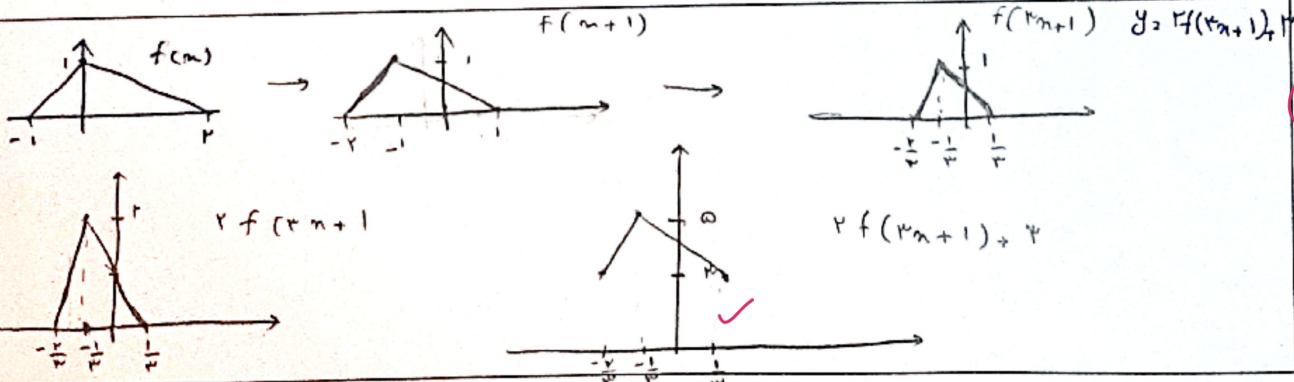
$$Df(x - \omega n)?$$

$$Df\left(\frac{x_{n+1}}{\gamma}\right) = [-1, 4]$$

$$-1 \leq x < 4 \rightarrow -4 \leq x_n < 16 \rightarrow -12 \leq x_{n+1} < 1 \rightarrow -1 \leq \frac{x_{n+1}}{\gamma} < \omega$$

$$-1 \leq \gamma - \omega n < \omega \rightarrow -4 \leq -\omega n < 4 \rightarrow \frac{4}{\omega} \geq x > -\frac{4}{\omega}$$

$$Df(x - \omega n) = \left(-\frac{4}{\omega}, \frac{4}{\omega}\right]$$



$$y = -\frac{1}{r} n^r + \frac{r}{r} n + 1 = -\frac{1}{r} \left(n - \frac{r}{\omega} \right)^r + \frac{r\lambda}{r\omega}, \frac{d(\omega)}{d\omega} = -\frac{1}{r} (n - \varepsilon)^r + r$$

$$= -\frac{1}{r} n^r - \frac{14}{r} + \frac{\lambda}{r} n + r = -\frac{1}{r} n^r + \frac{\lambda}{r} n - \frac{14}{r} = -\frac{1}{r} (n^r - \lambda n + 14)$$

$$= -\frac{1}{r} (n - 14)(n - 1) \rightarrow \left\{ \begin{array}{l} \text{عدد } n \text{ ها، با } 14 \text{ و } 1 \text{ قطع می کند} \end{array} \right.$$

$$y_{2,1-r} f(rn+r)$$

$$f(1) = r \rightarrow v_{n+r} = 1 \rightarrow n = \frac{1}{r} = \alpha$$

$$y' = 1 - \underbrace{2f(1)}_{\frac{1}{2}} = \frac{1}{2} \quad \checkmark \quad \beta$$

$$\alpha \times \beta_2 = \frac{1}{w} \times (-v), \quad \boxed{\frac{v}{w}}$$

$$Df(m): (a, \varepsilon] \rightarrow Df(m-1)? \rightarrow a < m-1 \leq \varepsilon \rightarrow a+1 < m \leq a$$

$$Dg(n) = [-1, b) \rightarrow Dg(n+1)? \rightarrow -1 \leq n+1 < b \rightarrow -2 \leq n < b-1$$

$$D_{f(m-1)+g(m+1)} = Df(m-1) \cap Dg(m+1) = [a+1, \omega] \cap [-r, b-1] = (-r, \omega)$$

$$\Rightarrow a+1 = -1 \rightarrow a = -2$$

$$a-b, -x-y, \boxed{-A}$$

$$-\infty < x < \infty \rightarrow -\frac{r}{r} \leq \frac{x}{r} \leq \frac{r}{r} \rightarrow -\frac{1}{r} \leq \frac{x}{r} + 1 \leq \frac{r}{r} \rightarrow Df(m) = \left[-\frac{1}{r}, \frac{r}{r}\right]$$

$$Rf\left(\frac{n}{r}+1\right) = Rf(n) \cdot [-1, r] \Rightarrow -1 \leq f(n) \leq r \Rightarrow -r \leq rf(n) \leq r$$

$$\Rightarrow -\omega \leq rf(n) - 1 \leq 1$$

$$\rightarrow 0 \leq |r f(x) - r| \leq \omega$$

$$\rightarrow 0 \leq \sqrt{|r f(m) - \mu|} \leq \sqrt{\omega}$$

$$R \sqrt{1 + f(m) \cdot r} = [0, \sqrt{2}]$$

$$f(n) = \left| \frac{n+1}{r(n+1)} \right| \xrightarrow{-1, 0, r} \left| \frac{(n-r)+1}{r(n-r)+1} \right| = \left| \frac{n-1}{r(n-1)} \right| \xrightarrow{1, 0, r} \left| \frac{n-1}{r(n-1)} \right| + 1 = g(n)$$

$n + g(n) < 0 \rightarrow \left| \frac{n-1}{r_n - r} \right| + 1 + n < 0$

$\frac{n-1}{n-\sqrt{x}} + 1 + n < 0 \rightarrow (n-\sqrt{x})(n+\sqrt{x})$

$$\frac{-\sqrt{r} \quad \sqrt{r} \quad \frac{r}{r}}{-\frac{r}{r} + \frac{r}{r} - \frac{r}{r} +}$$

$$\rightarrow \left(-\infty, -\sqrt{r} \right)$$