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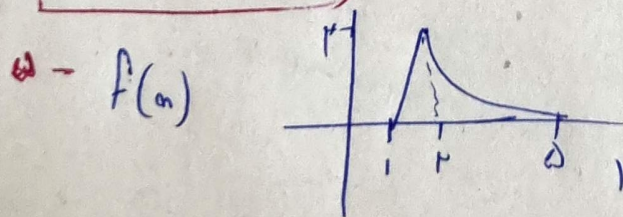
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⑦

$$1 > \beta > \frac{1}{2} \rightarrow D_f$$

 CamScanner

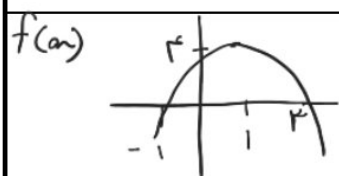
$y = \frac{-1}{r} x^r + \frac{r}{0} x + 1$ ext / r → $y = a(a-h)^r + k = a(a-f)^r + m$

(۲) ضرب a^r در انتقال تغییر نمی کند ⇒ $a = -\frac{1}{r}$

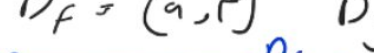
$-\frac{1}{r}(a-f)^r + r = 0 \rightarrow -\frac{1}{r}(a-f)^r = -r \rightarrow (a-f)^r = r$ و $a-f=r \Rightarrow a=f+r$

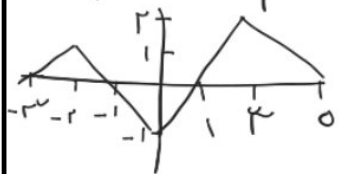
لذا $a-f=r \Rightarrow a=6$

معادله $= a = V$, ✓

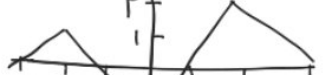


$f(r)$


$D_f = (a, f]$ $D_g = [-1, b)$ $y = f(n-1) + g(n+1) \rightarrow D = (-r, d)$

 $y(n) \rightarrow [-1, b) \rightarrow y(n+1) \rightarrow [-r, b-1)$
 $f(n) \rightarrow (a, f] \rightarrow f(n-1) \rightarrow (a+1, d]$
 $a - b = -r - q = -q$ ✓
 $a - r = -r \rightarrow a = -r$ ✓



$y_1 = f\left(\frac{x}{r} + 1\right)$
 $y_r = \sqrt{|rf(x) - r|} \quad -r \leq x \leq 0$



$D_{f(x)} \left[\left[\frac{-1}{r}, \frac{1}{r} \right] \right] \subset \left\{ \begin{array}{l} x = -r \rightarrow \frac{-r}{r} + 1 = 0 \\ x = 0 \rightarrow \frac{0}{r} + 1 = 1 \end{array} \right.$

$R_{y_1} = [-1, r] \times \mathbb{R} \rightarrow [-r, r] - r = [-2r, 0]$

$|[-2r, 0]| = [0, 2r] \rightarrow \sqrt{[0, 0]} = [0, \sqrt{0}] = R_{f(x)}$

$f(x) = \left| \frac{x+1}{2x+1} \right| \rightarrow g(x) = \left| \frac{x-1}{2x-1} \right|$

لکه به ازای این جواب قدر مطلق مثبت است پس تائیدی ندارد.

$\frac{x-1}{2x-1} < -1-x \rightarrow -1-x > \frac{x-1}{2x-1}$

$\frac{x-1}{2x-1} < -1-x \rightarrow \frac{2x^2-4}{2x-1} < 0$

$\frac{x-1}{2x-1} < -1-x \rightarrow \frac{2x^2-4}{2x-1} < 0$

$x < -\sqrt{2}$ یا $x > \sqrt{2}$

$(-\infty, -\sqrt{2}) \cup (\sqrt{2}, \infty)$