

$n \rightarrow \sqrt{2n^2} \rightarrow \frac{-kn}{\sqrt{2n^2}} = \frac{-k}{\sqrt{2}}$ قطبهای $= \frac{1}{\sqrt{2}}$ و $-\frac{1}{\sqrt{2}}$
 $n \rightarrow \sqrt{2n^2} \rightarrow \frac{kn}{\sqrt{2n^2}} = \frac{k}{\sqrt{2}}$ قطبهای $= \frac{1}{\sqrt{2}}$ و $-\frac{1}{\sqrt{2}}$
 $n = \frac{1}{\sqrt{2}} \Rightarrow y = \frac{1}{\sqrt{2}}$
 $n = -\frac{1}{\sqrt{2}} \Rightarrow y = -\frac{1}{\sqrt{2}} \Rightarrow \frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} = 0 = f, 0$

$f(n) = \frac{1}{2n} - \frac{1}{\sqrt{4+n}}$ $\Rightarrow a = n, f(n) \Rightarrow n = \frac{a}{2}$
 $\Rightarrow 0 < n < \frac{a}{2} \Rightarrow f(\frac{a}{2}) = \sqrt{\frac{a}{2}} = \min$ $f(\frac{a}{2}) = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$
 $\Rightarrow \sqrt{\frac{a}{2}} = \frac{1}{\sqrt{2}} \Rightarrow \sqrt{a} = 1 \Rightarrow a = 1$

$f(n) = \frac{(f(n^2) - f(n)) - f(n^2 - f(n))}{(n^2 - 1)^2}$
 $\Rightarrow f(n^2) - f(n^2 - f(n)) = 0$
 $\Rightarrow n(f(n^2) - f(n^2 - 1)) = 0 \Rightarrow \frac{n=0}{n \neq 0}$
 \Rightarrow قطب

$y' = 2an^2 + bnc \xrightarrow{n=0} < 0 \Rightarrow y = an^2 + bn + c$

$n=0 \Rightarrow a > 0 \Rightarrow y = an^2 + bn + c \xrightarrow{n=0} a > 0 \Rightarrow y' = 2an^2 + b$
 $n=1 \Rightarrow a > 0, b > 0 \Rightarrow a = -2 \Rightarrow b = 3 \Rightarrow a < b = -9$

$f(n) = n^2 + 3n \Rightarrow f'(n) = 2n + 3 > 0 \Rightarrow n^2 \leq n \Rightarrow n \leq 1$

$\Rightarrow n = 1 = \boxed{y = -1} \min$

$$\begin{cases}
 n^2 \rightarrow n^2 \text{ مقلوب} \\
 n \rightarrow n^2 \text{ مقلوب} \Rightarrow -n^2 \text{ مقلوب} \Rightarrow n^2 \text{ مقلوب} \Rightarrow a = \frac{1}{n}
 \end{cases}$$

$$b = -1 \Rightarrow \frac{b}{a} = \frac{-1}{\frac{1}{n}} = -n$$

جانب قائم $= \frac{a}{a^2}$ جانب قائم $= \frac{a-1}{a^2}$

$$\Rightarrow \left(\frac{a-1}{a^2}, \frac{a}{a^2} \right) \quad f'(a) = \frac{1}{a^2} \Rightarrow n = -\frac{1}{a}$$

$$\frac{-n^2}{n^2} = \frac{-n+1}{n^2} \Rightarrow n = \frac{1}{n}$$

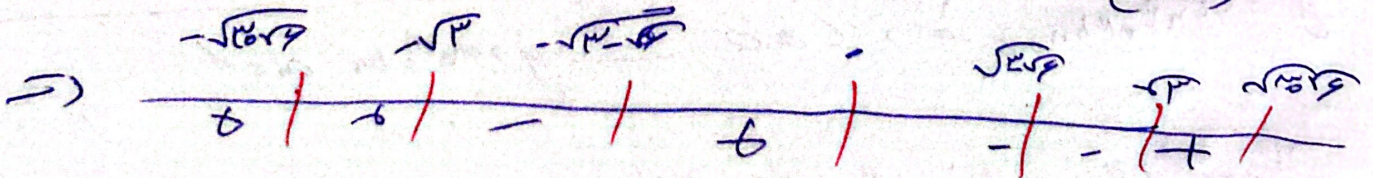
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$$\frac{n^2}{n^2-1} \rightarrow f'(a) = \frac{(n^2)(n^2-1) - (n^2)(2n)}{(n^2-1)^2} = \frac{n^2 - 2n^3}{(n^2-1)^2}$$

$$\Rightarrow \text{ميزان} = \sqrt{2} \quad \mu$$

$$\frac{n^2-1}{n^2-1} \rightarrow f'(a) = \frac{(n^2)(2n) - (n^2)(n^2-1)}{(n^2-1)^2} = \frac{2n^3 - n^4 + n^2}{(n^2-1)^2}$$



$$\boxed{0, 0, \mu}$$

$$x(1-|x|) \geq 0 \rightarrow \text{D}f = (-\infty, -1] \cup [0, 1]$$

$$f'(x) = \frac{1-2|x|}{2\sqrt{x(1-|x|)}} \rightarrow |x| = \frac{1}{2} \rightarrow x = \frac{1}{2} \quad (\text{در راستای } x = -\frac{1}{2})$$

x	$\frac{1}{2}$	
y'	+	-
y	↑	↓

$n=0$
 $m=1$
max

$$m+n+k = 4+1=5$$

نقاط 0، 1 و $\frac{1}{2}$ برای $k=4$

صحنه A معین افقی $y=3$ و معین قائم $y=-\frac{1}{2}$ است، معین $y=3$ و معین $y=-\frac{1}{2}$ میسر است

$$4\left(-\frac{1}{2}\right)^2 + a\left(-\frac{1}{2}\right) + 1 = 0 \rightarrow \frac{1}{2}a = 2 \rightarrow a = 4$$

$$\lim_{n \rightarrow \infty} \frac{bn^2 + v}{\epsilon n^2 + an + v} = \frac{b}{\epsilon} = 3 \rightarrow b = 12$$

$$\left. \begin{array}{l} a = 4 \\ b = 12 \end{array} \right\} \frac{b}{a} = 3$$