```
JXCK
  ean VXEX: X = M, M-berxnow upon laya X
        ] m E[R: XXEX m & x T) m- Hush her 2p. (x-orp (nyy)
 X-ove. <=> X ove. chepyy 4 cmyy <=> ] m, M:
  : m = x = M Yxe X <=> JC: (x) = C Yxe X
1) D-76 OUP. hocn-74, T.e. Mn-60 3 492 oup.
    Hair 14 B. 4 M. Wahuy61
    m=0 unu -1 unu -5000
    \forall x = \frac{1}{n} : \frac{1}{n} > 0
      M = 1 un \mathfrak{I} h \leq 1
    2. \quad \Omega_n = \frac{2n^3 - 1}{2^2 n^2} = 2 - \frac{5}{34n^2} < 2
      M- 2
    3. Cn = \( \frac{1-h}{h^2 1.1} \)
      0 > \frac{-l-h}{\sqrt{h^2 11}} > \frac{-h}{\sqrt{(n \cdot 1)^2}} - \frac{h}{n \cdot 1} > -1
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$$|O(n)| = \frac{n-1}{\sqrt{n^{2}+1}} \le \frac{n}{\sqrt{n^{2}}} = \frac{1}{n} = 1$$

$$|O(n)| = \frac{n-1}{\sqrt{n^{2}+1}} \le \frac{n-1}{\sqrt{n^{2}+1}} = \frac{1}{\sqrt{n^{2}+1}} = \frac{1}{\sqrt{n^{2}+$$

2) 
$$a_{n} = \frac{n^{2} - h}{n+1} = \frac{h-1}{1+\frac{3}{n} + \frac{1}{n}} > \frac{n-1}{4}$$
 $a_{n} = \frac{h^{2} - h}{n+3} = h - \frac{4h}{n+3} = h - 4 + \frac{12}{n+2} > h$ 

3)  $a_{n} = \frac{5h}{n^{2}} - 4h = \left(\left(\frac{5}{4}\right)^{h} - 1\right) + \frac{1}{4}$ 
 $a_{n} = \frac{2h}{n^{2}}$ 
 $a_{n} =$ 

2) 
$$\sup \frac{2n^{2}-1}{2\ln^{2}} = \sup \left(2 - \frac{5}{2^{2}+k^{2}}\right) = 2$$
 $\inf \frac{2n^{2}-1}{2\ln^{2}} = \frac{1}{3} = 0, \quad 0, \quad 0 = 0$ 
 $\inf \frac{1-h}{\sqrt{n^{2}+1}} = 0 = 0, \quad 0, \quad 0 = 0$ 
 $\inf \frac{1-h}{\sqrt{n^{2}+1}} = -1 \iff \sup \frac{n-1}{\sqrt{n^{2}+1}} = 1$ 
 $\frac{n-1}{\sqrt{n^{2}+1}} > \frac{1-E}{n+1} > \frac{E>0}{n+1} > 1-E$ 
 $\frac{n-1}{\sqrt{n^{2}+1}} > \frac{n-1}{n+1} > \frac{1}{n+1} = -1$