



N9. Mexañ {xn} ma {yn} - neceivreuro bemun nowigobuocmi. Touigobuience (yn 3 mora nama crin-Tenny veryresby panners, morce il zobcie ne eranu, a makone reonce byme heckineuno hason ado necestronemo Cemeono. N3. $f: [0, \frac{\pi}{a}] \rightarrow R$; f(x) = fgx; $H = [1; +\infty]$ BigoSpanceum E. in'Ennubre; ne E I > crop' E le mubro; me E SiE venubro. $f^{-1}(A) = \begin{bmatrix} \overline{T} & \overline{T} \\ \overline{T} & \overline{T} \end{bmatrix}$ Им. Пробора зом мистеми А при водобрансем. mi f vazubaiones senoncercy: f -+ (A) def { x | 1 } y & A: f(x) = y)} = { f(x) x & = $\{x \in X : f(x) \in A\}$

Racinevury bepaus viency musicula ACR nozubavones ii mornow bepareson mercero i no zvara vonce $\sup A$: $(M = \sup A) \stackrel{\text{def}}{=} | 1) (\forall x \in A) \{ x \leq M \}$ $| 2) (\forall E > 0) (\exists x' \in A) \{ x' > M - E \}$ N13. Kpu me più Ko uni! gele moro, rejos nocui. gobuiens zoina sace, leodxigue : gourse und boua byea pyuga recuma isuowo. N2. 1) Tpu n=1 pibuiens buse uye meao: 13= 1/1+113 2) Tpunyenueus, un pluiente banongente co n=k: 13+23+...+k3= 4 3) Dobecome, uso non n= k+1: 13+23+...+ k3+(k+1)3= (k+1)2/k+2/2 $1^{3} + 2^{3} + \dots + k^{3} = \frac{k^{2} |k+1|^{2}}{4}$ ga nou nywe wwe en inggrenië, mogi $1^{3} + 2^{3} + \dots + k^{3} + (k+1)^{3} = \frac{k^{2} (k+1)^{2}}{4}$ 1 (b+1) 3 = b2 (b+1)2 +4(b+1)3 = (b+1)2 (b2+4b+4) = (l+1)2 (b+2)2 Dobegeno!

N10. Ereseum a EM na zubavont mivivea revere, sous que буде seoro ele neuma b ∈ M, b ≥ a. N6. a) lim 1+3 +5+... + (2n+1) = $= \lim_{n \to \infty} \frac{1 + (2n+1)}{3} \cdot n = \lim_{n \to \infty} \frac{(n+1)n}{3n^2} - \lim_{n \to \infty} \frac{n+1}{3n} = \frac{1}{3}$ 8) lin (V/12 n + n2 -8) lim (7444 + 13 n2 +7 -2 n2)= n2 14 + 13 + 74 -2 n2= 61 lim $\frac{7^{n-1}}{2^n \cdot 7^{n+1}} = \frac{7^n}{2^n \cdot 7^n} = \frac{7^n \left(\frac{1}{7} + \left(\frac{5}{7}\right)^n\right)}{7^n \left(\frac{1}{3}\right)^n - 7} = \frac{1}{7} = \frac{1}{49}$ 1) $\lim_{n \to \infty} \left(\frac{n^3 - 2}{n^3 + 1} \right)^{n^3 - 2} = \left(\frac{n^3 + 1 - 3}{n^3 + 1} \right)^{n^3 - 2} = \left(\frac{1 - \frac{3}{n^3 + 1}}{n^3 + 1} \right)^{n^3 - 2} = \left(\frac{1 - \frac{3}{n^3 + 1}}{n^3 + 1} \right)^{n^3 - 2} = \left(\frac{n^3 + 1}{n^3 + 1} \right)^{n^3$ 1) n=2k: N2k= 22k.3k+2 = 0 - 7acmusks
rpanuxe 2) n-2k-1: Xxk-1 = 22k-1.3k+1 = 0 - racmeo Be yamura lim = lim = lim = 0

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1	$\frac{n^2}{n}$
3	n e l
	$n^2 < 3^n$
	n > 2
	n2 (n+1)2
	Thomacon 2 11=2 3n > 3n+1 Delegeno!
	Robegnes odne reenience
	n = 0, $n = 0$, $n = 0$, $n = 0$
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