www.genua.de 1. A: n=0 1.5.4 WA f(n+1, n) = f(n) f(n+1, n-1) f(n+1, m-1) - f(m) f(m+1|m-2|) -Gilt auch for not n f(0, n) = n+1 = Vn en + (No: + Chin) ist defined genua GmbH, Domagkstraße tel +49 89 991950-0, info@ger

f(n+1, m-2) = (f(h), f(a+1, m-3)) lingade Schiff wird in him and vertinger bis m-0 Hart, 81 = Mars (1) - (Comm) 1) terminant peres 1.1. -) termited jens of we we want by me o

MU- plat 4

A) $f(n) = \frac{2}{\xi_{0}}(2i+1) = 2\frac{\pi}{\xi_{0}}i + N = 2\frac{n(n-n)}{\xi_{0}} + n$ $= n^{2} + n + n = n^{2} + 2n$ $g(n) = 3n^{2} + 17$ $f(n) = \lim_{n \to \infty} \frac{n^{2} + 1n}{3n^{2} + 1} = \lim_{n \to \infty} \frac{n^{2} + 1n}{3n^{2} + 1} = \frac{1}{3} = const.$ $= \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} = const.$ $= \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} = const.$ $= \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} = const.$ $= \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} = const.$ $= \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} f(n) + \frac{1}{3} f(n) + \frac{1}{3} f(n) = \frac{1}{3} f(n) + \frac{1}{$

(3) flut - leg (n!) = \(\tilde{\in} \leg (h) \leq n \tilde{\leg (h)} \)

glut = 3n leg n (n) = 15n 2 leg n

My Migan

1. A =1

1. f(a) (18/2) = log(1) < 15 m. log 1 = g(a)

15. 22. Vn (N: 1.44) (g(h) =) 1. +6++) (g(h))

1. f(n+1) = ly (n+1) = Z ly (k) (n+1) lof(n) = 10 (n+1) ly (n+1) (n+1) lof (n+1) (n+1) (n+1) ly (n+1) (n+1)

-) HORANDO FIG & JGEN

(3) Pal- 2mts + uz g(1) = 20 20 (4) m+1

Σ 2 · 4 1+2 = 3

20 21 = 50 24 1 2ml = 2 2ml + 2ml = 3. 2ml = 20+2

P

har this 4 Rin 2 min + mc = 2002 4 Just 20 - lu 24 = 26

g(-) e or (+6))

2 2 f(-) = 36 (0)361 16) + 45 GW 11 32532 = 3(25)7)2

A3 Standard - Nothwale

0= # 10-N= & (on 1 one)

Onn = I Mark Main = Man : Who + MAR : Man = m1,1 . N12 + m1,2 . M2,2 Unz = 2 majenkiz = M2,1 . N2,1 + M22 . N2,1 UZIN - I mzwnun = m 2/1 . h 1/2 + M 2/2 . M 2/2 Juz = I mz4. M4.2

=> Virinte 1 = Standersd hett will

Verlande ?:

Unin = Ha + Hy - Hg + Hy

= (mm +m22)-(unm +uzz)+ mic (nzm-um) - nez(nam+m-12) + (mn - mu) · (nin + mm)

Cij := Eain buij

= mm. nan + mee tran + mastered mee but + mee tren - mee tran - mystate - mythirt + my nen - meetren + mae har - my ver = mm um + maz nzn = on (varvariantes)

07,2 = H3+ H5 = mm (nn,2 - nze) + uzz (mn+ mnz) = maina, 2 - may . brzz + man thrz + maz . brzz = mn. un2 + mn. v. uz = on, 2 (variable 1)

02,1 := HZ + H4 = (M2,1 + M2Z).n.n + M2Z. (N21 - Un)

= M211. M11 + M2Z.M2,1 = 02,1 (Vande 1)

Te12:= H1- H2 + H3+ H6

= (mn +m22). (nn + u22) - un (m2n+m22)

+ mn (ma h12-n212) + (m2n -mn). (nn + u412)

- man no + man +

= man nan + mzzan + mzz · uzz - mza · nan - mzzan + man naz - mza · nzz + mzzan - mzzan + mzin · naz - man · nzz

= m2,1. n1,2 + m22-n22 = 03/2 (valable 1)

Vandure ? it waste a

- => veriente 2 ist Voiante 1 mit men Hilfsmatriten
- -> voicile à bereduit des glecle unie Voicile s'und dont vie die Standardrethode

tome 1

Master Methode: a-4, b-2, Hotels

A3: asymptotische loutact KNICK 1: Variable ? T(n)- 8. T(=) +412 I(m) - 7.7 (=) + 18 12 nafor-notice: Rasher Remide: a. + , 6=2 , ful - 12 16/2 - 10/1 - 3 25 2 - 1/6) E 8(3) ly 60 = log 27 >2 =) T(N) + o (n 2, on) a=t, b=2, Ruj= n2, Kest als Harlod rether with he yell namice, du list gleech in Jenson whole