Kp # 2 Impossibilité 0.1. Des manux x E/R us. gunca pag E (Intarctg nd - Ju) Ju + ougt un - vi = Ju (J1 + aretgut -1) = = Ju (1+ asetg ut + 0 (asetg²ut) -1) = = Vy (aretgent + o (aretgent))? 4 consequence Croquences areto (hx) = h2+ 0 (n34) $\frac{n^2}{2\sqrt{n}} + O\left(\frac{n^3\lambda}{\sqrt{n}}\right) = \frac{1}{2} \ln \lambda - \frac{1}{2} + O\left(\frac{n^2\lambda}{2} - \frac{1}{2}\right)$ $\frac{cxeguma}{cxeguma} = \frac{n\mu}{2} \times \frac{1}{2} + \frac{cxegum}{2}$ $\frac{\mu\mu}{2} = \frac{1}{2} + \frac{1}{2$

Emposicement 0,2 exagermed in pagel: loglogbogn>2 loglognse2 lognse2 Tyre use el 0 (an < 1 => puls chaquement \(\int \frac{\partial \frac{\partia = 5th tsinst dt = 1 5th dt = c => pres chagema

Inposselleme 0.5 Teologamo uno opque u gobiembopalm grabielsego. X da + g du + Z du = u + xy u= xy logx + x yr (x, Z) X du + g du + 2 du = x 9 + log(x)+ + x 9 - y du -= Z = dw + x3 eog(x) + y du - x3 eog (x)+ & dv = xy log (x) + xq (x, x) = u + x3 4 = 2 (0g (x) + x4 (4, x) = 2 (0g(x) + x4(4, V) du = 2 eg(x)+ 2 + 4(u, v) + x [du , f - 3) + + de (- 2)] - g (logx + 1) - (du, g + du) + p(u,v) - 2 (logx+1) - { (gde + z de) + cp(u,v) du = x logx +x, du 1 - x log(x) + du

12 - xy log(x) +x dy 1 - xy logx +dy egupasicreture 0,4. Typins page Lanu Elu esciogerment u anéché en gelit Trouga Den escagument Qu & Cn & By => 0 & Bn - Cy & By - Qy E (By - orn) - zera conocinalestic pilg Elu San - cocogelinca => E (bu-ou) - escogeina => => no up epobleesens & (bn-cn) - crogum cas =)] work. lim & bu-cu = Li = lim (& lu - Ech) 48>0 3 mo 4 m> mo (& Bu- Ecil < E -8+ \ Bn-L < \ Cu < E+ \ Bn-L => I kok lim Elu-Le=> gelig Salbunes un Le- E < Zeu < Le+E => Le-L - 2E < Ecn < 16-L+2E=>

Uzycume na ascalsomingo Gupasichellul 0.3. escagallacins pagel. le omeocumbelskyld = 1 cos (kin2+1) cos(kn+k) = cos(kn) · cos(k) - sin(ku)· sin(k) = (-1) cos(1) Osa juga escagamen \(\frac{2}{4\lambda}\) = \(\left(\frac{1}{2\frac{1}{11}} \right) \) => meg = 1 cos ([(11+1)) cseogumes!

= (-1) n = = 1 (-1) n (1+ (-1) n) = = 1 (2 m) (1+ (-1) n) = 1 (2 m (1+ (-1) m) = 1+ d(-1) +0 (1) = 1- d(-1) +0 (1) 5 (-1)4 - d +0 (1) => escaguenca yue 2 >0 44 476 mpu 2>0 mpu 2>0 2 (24(-1)") upobagem me ne generalmet = Doraltanguer conquient upu 251 Gulaltian conquiencent upu 0<2<1