Analysis IV Uebung 08 Michael Kopp June 16, 2010

Ana (3) EL FREZ-SE 9:1-10,11-0 P(x)= +(=x) Hickerel CR Juns Tr F(x) e 2x そのみ Wirgelno reiler leer ... CE = Jan f(Ex) = iex dx = Jan Jakte) e at 14(6) = 1 2 10 S - 10 1 4(4) E REST AL E $\overline{\mathcal{J}}(\lambda_{\bullet})$ f(t) 1/2 (F[4](x) da

(a) G S Lª Trega At (tgle -) f ELª: Ute-flynke fur E>N 3. 3 g € Co min 11g-tg 11€ für &>M Vonstrive So via to reveile Dies ist mylis vil de Din't - Bed pelle juil Finalurariae 4(60+2)-4(6-0)" TEL-5,03. Die noribe yen Fairerile mis gen IT and I rev. week , de Cottonis entstehende Fet he esist go g= 1/k hes ester l'Estimbre fis l'ament

The same of the same of En it jetet : 119- f11=11 30-ta+to-111 E 119 + 4 11+ 11+ - +11 4 3 = 154 8>V. Pas V. int fir dan & no ni viele, don Star - Star = S tax KE. Dan ist might weil de Treggen finktionen delt in L' liga and wir of linen To upolife Tuterall defrices shall 圈

R wie in Ca)! - F - F 3 - P Diamed it den Interall [-11 1] & and 24 periodial largenetet soits die Treppen 1- It somen. Die M-te Partial Atume n'A order eale genig on & - vgl (a). Sie mas 20 - Reigdink sen, weil de Forrier lafficialen wie 27 - period Final. def. and and de leile ous du-prial TET besteht. Man behallet air da Interall E-11, 15] (c) de p(x)=0, en f. f. f. t. f. (x) = 0 Dies gilt mod Site vin Weransher on Bers werten weil In =3 f glu angenommen wid

Aug (8) (a) Die Johnsteing von cos (217 8x) ist nieby Hi Shael in x oif R do cos stely in fir re [= 1 = 3 CASIO und die Rolwette del Symmetrie der Cos glad = 2 (252-200) (x (252-200) 2 -1 (252-200) 2 + -1 (252-200) (= (225 + 500) = = (225 + 500) =) } = 2 (2-4 sin[+(2-4)] + 2+4 sin[+(2+4)]) (05) (15) (15) - 62 (05) (16(04)) An (05) 603 (174) + 605(07) - 1 min (18) (18) (11 (2-4 / 2+4) Weder need 1 : 4(x) = 1 50 { 1 su(see) (1 (+ 1) } e 1 500 x

(E) cot (11+1 = cos(11x) (e'5"= (-15"

(a) Vesses iche & sodan un etwo symme bindes be -3 = 1 = 1 = (x) = izmx dx = 5 = f(x) ism (-2mx) dx = -S drien (ronk) + St i su (ronk) dy = \frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \left[\frac{1}{2} \right] \right] - \frac{1}{2} \left[\frac{1}{2} \right] \right] \frac{1}{2} \f = m (7-40") Ch = Si echo e izerox dex = Si far cos (terne) = 5 = - cos (2000 x) dy + 5 = cos (2000 x) dx + 5 = cos (2000 x) dx = 1 {[-nin(-13h) + sin(-rn)] + [sin(15) - sin(-15)]

= m (7-40) Ch - Si eles e en dex = Si eles en (terrex) = 5-2 - cos (2000 x) dy + 5-2 cos (2000 x) 4 5 - cos (200 x) 4x = 1 { [-in(- 12) + sin (+rn)] + [sin(12)] - sin(- 12)] + [-sin(62) + sin(12)] = 1 sin (2) + sin (2) + sin (2) + sin (2) = 1 2 - m(m) + su (m) } (b) Now Wort. U Divie for my just de formereche pinletwise gagen of Gis of an der fring shalle, die den delesgie - Inte gral aber egal med. Daniet Universet sie Cde F. P.) one 11-1/22 gegen (c) SN(x) -> P(x) + x + 1 + 1.7 . Dort: 0 Brider folgt at Unit. v. D. ni.