marios Unider Garres de Santono - 4000 8 8 materieur Andrado Navarro de Olineira - 42 66 0 8 (olculando a polindo do intempolação de geras 4 gls) = = 51 1 100 = 5! 10no + 5! 5th 5! 12no + 5! 5'no 5 S! NO) + S(1-1)! (NO)-NO)) + S(1-1) (N(2)-2 NO) + NO) + O) + 1(0-1)! (M(3) - 3n(0) + 3(n0)) + no)

31(5-3)! +5(2-2)(2-3)(2-3)(2-4)!(7(4)-47(3)+8(27(2)-40(2)+MO) $\frac{9!(3-9)!}{-h(0)+5(n(0)-n(0))+l} = 5(5-1)(n(0)-3n(0)+h(0))+l5(n-1)$ $\frac{(n-3)(n(3)-3n(3)+3n(3)-n(0))+l}{3} = \frac{1}{2} + \frac{1}{$ $= 17(6)(1-2+1.56-2)-\frac{1}{2}5(5-2)(5-2)(5-2)+\frac{1}{2}5(5-1)(5-2)(5-3))$ $+.7(6)(5-2(\frac{1}{2}5(5-1))+(\frac{1}{2}(\frac{1}{2}5(5-2)(5-2)(5-2)))+(\frac{1}{2}5(5-1)(5-2)(5-3)))$ $+7(6)(\frac{1}{2}5(5-1)-\frac{1}{2}(\frac{1}{2}5(5-1)(5-2)(5-2)))+(\frac{1}{2}45(5-1)(5-2)(5-3)))$ +M(3)(-156-2)(5-2)(5-2)=1, +M(4) 2 2(2-2)(2-2)(5-3)=1, コカ(の)(1-25 x +35x2- 豆 3 + 2 x4) + カ(1) な(2年 2 - 76 x2 + 9 x3 - 24) + 4(7) (- 18/2 + 1982 - 8 2 + 24) +4(3)1(-82-24133+723-54) + 174) fr (34 - 803 + 2/02-80)

polinente elene passon pour x; 1 x f e mais terês ponter, Todos aquidistas distancio enteres os ponter sero dada por h - 4x alordogen Stelrade. 1(x:)= 1(x(5=0))= 2(0), 1(x:+1h)= 1(x=1))=9(1) 1(x:+2h)=1(x(5=0))=2(0), 1(x:+3h)=1(x(5=3))=g(3)= 1(x:+2h)=1(x(5=4))=2(4) e X(2)= X; + 5 h ratingay evos releases pais x (0) = x; +0h = x; , x(1) = x; + Lh , x(2) = x; + 2h, x(3) = x; +3h, x(4) = xi Aplicando a medance de navionel ternos; Sig(x) dx 2 Si P(x) 1x = Si P(x (x)) dx(5) (5 = 4 Sop(65)) dx = hSog(5) dy Substituindo o polinario da pubstituição de grac 4 neva integral temos Sifundx 2 h 6 / giox (24-502 + 35 20 -1023 + 24) +(9(1)2(242-262+922-24))+ +(g(2)2(-122+292-82+24))+ +(9(3)2(82-142+723-24))+ + (g(y)2(-6s+1122- 625+24)))ds

= h(glosty 5 (24-502+3522-1025+24)d2+ g(1) 1 5 (942 - 26 2 + 92 - 2") dx + + 9(2)25 (-132 1192-82)+124) dx+ 49(3)65°(8,-14,22 + 7,23 - 24) ds + + 9 (4) + 5° (-62 + 21, 22 - 6 23 + 24) ds)=:. = h(24 go + 64 g(1) + 8 g(2) + 64 g(3) + 24 g(4)) -:= 2 h (7g(0) + 32g(1) + 12g(2) + 32g(3) + 7g(4)) Por fim, et formelle que est me a integral de novo perdreme usando a abordgem peleda. 1 (2) (x; +3h) + 32 f(x; +h) + L2 f(x; +2h) + 32 f(x; +3h) +3/(x:+4h))

han H= TX 1(10) = f(xi+h) = f(x(5=0))=g(0), f(xi+h) = f(x(5=1))=g(1), f(xi+3h)=f(x(5=4))=g(4), f(xi+4h) = f(x(5=3))=g(3) & f(xi+5h)=f(x(5=4))=g(4). X(5)=X;+h+5h gartisfay eras relación pois x(1)=x;+h+2h=x2, X(1)=x;+h+2h=x2, X(0) = xithtoh = xo, 2 X(4) = Xi+h+4h= Xy. X(3) = Xi+h+3h=X3 Apriando o mydense de rearided Comos Sxi f(x)dx = Sxip(x)dx = Sxip(x(5)) = 12 - h Sip(x(5)) da = h Sig(s)ds Substituíndo o polinômio de substituição no sutegral temos Situ dx th [] g(0) (24-502+352-1023+24)+ +9(1) 1(242-26 22 + 922-24) + +3(2)2(-272+2920 1-823+24)+ + g(3) 2(80-142+73-24)+ + g(4)=(-6+12+00-623+24))dx=

= h(g(0) + p5 24-50 st 35 22 - 20 23 + 24 ds + + g(v) 2 /3 42-26 2 2+9 83 - 2" dst + g(2) 2 ps-12 2 + 19 p2 - 8 p3 + 04 / p + +9(3)1p882-2412+713-14/2+ tg(4) \$ 15-62 + 11 22 - 6 13 + 54 1 = := $h\left(\frac{307}{30}g(0) - \frac{189}{45}g(1) + \frac{217}{15}g(7) - \frac{289}{45}g(3) + \frac{397}{90}g(4)\right)$:= $h\left(\frac{307}{30}g(0) - \frac{189}{45}g(1) + \frac{217}{15}g(7) - \frac{289}{45}g(3) + \frac{397}{90}g(4)\right)$ for fin, obtivenes a formula you estima a integral do nosse problema usando com abordagem aborte. Sif(x) dx 2 30h(12 f(x;+h) 0-14 f(x;+24) +26 f(x;+34)-14 f(x;+4h) +21 f(x;+5h) m