

2) Approx. 5'cm using x, x+h, x+2h, Let &c) - fin=Af(r) + Bf(x+h) + Cf(x+2h) $= 2 Af(x) + B \left[f(x) + hf'(x) + \frac{1}{2}h^2 f''(x) + \frac{1}{3}h^3 f'''(x + 2h) \right] + C \left[f(x) + 2hf'(x) + \frac{1}{2}h^2 f''(x) + \frac{1}{3}h^3 + (x + 2h) \right]$ = (A+B+C)+(x)+h(B+2C)5(4)+=n2(B-4C)F(6) + 3 63 [B5" (x+6h) + 8(5" (x+den))] (3) + (5): (-40)+20= 5 (5) A+B+C=0 (C = - \frac{1}{2h}) (3) B+2C = Th (3) 13=-40 (i) A (2/2h) = 0 A = 3h 一、f(x) 二(三式)f(x)+(元)f(x+h)+(二元)f(x+h) + 1 13 [2 5" (x+6h) - 3 5" (x+26h $= -\frac{3}{2h} f(x) + \frac{2}{h} f(x+h) - \frac{1}{2h} f(x+2h) + \frac{1}{3} f''(x+3h)$ $-\frac{2}{3} f''(x+2h)$ · で= f(x)+3 f(n)-2 f(x+h)+ 立ち f(x+2h) - = 12 5"(x+0h) + = 12 1" (x+20h)