3aganne 1 Pi(Xi) = P(Xi+h)-P(Xi-h) 2h Depresure paersonne Augu = AP  $\Delta hu = \frac{M_3(h)^3}{6h} = \frac{Po(ht)^2}{to^3}$ Brucemen min ho = to (AP )/3 Ap 20,3 to=1000 po=200 => ho ~ 90

B

1 = -1 -/ 11

1) Hopmans noe perempe gennence: En (0,1) => => cheques quar -0, a quempeus =1 sum ((w[i] \* (y[i] - spl(x[i]))) axis=0) < S. s napo morp Bee namigoci toum 1, bee roum negabucum, torg N=1000 & S = rum((W[i]\*(yti]-spl(x[i]))) 0,25 \ \(\frac{1}{4} = 250 \ \(\text{uymc u0 29-04}\) Задание З. J'(x0) = 12k (fi-1 - 8fins +8fins - fita) mo to octamous Etotal = & neether + & comp nocce poquorumento 6 purg Teurop The Daniel NO fine = f(x +2h) = f(x) + fint 2h) + f(x) (h) + f"(x) (8h3) + +f(x) 16k4 = f 32k5 [6 fine f(x) + f'(x)h + f'(x)h + f''(x)h3 + f''h4 + fh5 fin = fox + f'(x)h + f'(x)h + + 1"(x)h3 + 10h1 + 15h3 faz = f(x+2h)=f(x) + 2hf(x) + 2f(x)h2 + & f"(x) -8h3 + + f'(x) 1684 + f 32 h' f'(xo) = (f'(x)(-2h) - f'''(x)(8h3) 120 f 132 h6) 2 +  $+18(f'(x)h + f'''(x)h^3) + f^5h^2 =$  $= (12f'(x)h + \frac{48f^{5}h^{5}}{120})\frac{1}{12h} - f'(x) - \frac{48}{120}f'h^{4}$ 12 = 12h(af+8af+8af+af) = 3 af

Hairgere min noh.  $F = 4 + 42 = \frac{M_5 h^4}{30} + \frac{3 af}{2h}$   $F' = 4 + \frac{M_5 h^3}{30} = \frac{3 af}{2h^2}$   $h^5 = \frac{3 af \cdot 30}{2 \cdot 4 M_5} = \frac{46 af}{4 M_5}$ 

BHBBHH

$$f'(x) = \frac{f_{i+h} - f_{i-h}}{2h}$$

$$3agauu 4$$

$$f(x+h) = f(x) + f'(x) h + f''(x) h^{2} + f'''(x) h^{3}$$

$$f'(x-h) = f(x) + f'(x) h + f''(x) h^{3} + f'''(x) h^{3}$$

$$f'(x) = \frac{1}{2h} \left( 2f'(x)h + \frac{1}{3} f'''(x)h^{3} \right).$$

$$\Delta_{1} = f'''(x) \frac{1}{6} h^{2} = \frac{M_{3}h^{2}}{6}$$

$$\Delta_{2} = \frac{\Delta f}{h}$$

$$h_{0} = 9$$

Bagara 6.

Xn-mocu-10 6 Xn+1-5 Xn=4 Xo = 10-6. Perusu: 11-5/2=0 => 1-5=0 => => Oduje perrelle X = C . 5n - Odrycet price releture perieure Xn=-1 => [X=C.5"-1] eeu (=0 =) Xo=-1 => Xm=-1 +n Tyeno Xo = -1 + 10-6 => X1= 10-6.59  $X_2 = 5X_1 + 4 = -5 - 25.10^{-6} + 4 = -1 - 25.10^{-6}$ UTD => norpellello emb будин раети эпеньшенушамь но Anyrux rueeu TAMUX MES.