1b (done) Gdzie  $H_k := x_k - x_{k-1}$  oraz  $M_k := s''(x_k)$  $\begin{array}{ll} \mathcal{W}_{\text{COP}} & \text{no k-hy separat} & \mathcal{W}_{\text{IFS}}^{\text{TFS}} \\ s(x) = h_k^{-1} \Big[ \frac{1}{6} M_{k-1} (x_k - x)^3 + \frac{1}{6} M_k (x - x_{k-1})^3 + (f(x_{k-1}) - x_{k-1})^3 + (f(x_{k$ Momenty  $M_k$  spełniają następującą zależność (\*):  $\lambda_k M_{k-1} + 2M_k + (1-\lambda_k) M_{k+1} = 6f[x_{k-1}, x_k, x_{k+1}]$ Gdzie  $f[x_{k-1},x_k,x_{k+1}]$  to iloraz różnicowy zdefiniowany wcześniej, natomiast współczynniki  $\lambda_k := \frac{h_k}{h_k + h_{k+1}}$ No= 0 -16195 -10116 2023 -6070 2023 8 -2084 2023 2023 0 2023 [809f Mo=0, Ma=()  $:M_k:=s''(x_k)$  , wife  $\lambda_k M_{k-1} + 2M_k + (1 - \lambda_k) M_{k+1} = 6f[x_{k-1}, x_k, x_{k+1}] \text{ money wise 5 towner } \omega \text{ without ite}$   $\lambda_k M_{k-1} + 2M_k + (1 - \lambda_k) M_k = 6f[x_{k-1}, x_k, x_{k+1}] \text{ money wise 5 towner } \omega \text{ without ite}$ 12 M1+2M2+ (4-20)M3 = O 23 M2+2M3+(1-23)M9 = O \*1 2 2 He +2M2+2M3=C 30 = 12 - 12 - 13 = 0 => some zero 24 M3+2M4+(4-76) M5=0 75/4+2/15+(1-25)/16 5 4/4 +2M5=C \* wyrezy zerowe the policing lumbdy hy=-4+7=3 2=3 hz=0+2=2 2==2  $\frac{1}{6}M_{k}(x-x_{k-1})^{3}+(f(x_{k-1})-x_{k})-\frac{1}{6}M_{k}h_{k}^{2})(x-x_{k-1})}{(x-x_{k-1})^{3}}$   $\frac{1}{6}M_{k}(x-x_{k-1})^{3}+(f(x_{k-1})-x_{k})-\frac{1}{6}M_{k}h_{k}^{2})(x-x_{k-1})}{(x-x_{k-1})^{3}}$   $\frac{1}{6}M_{k}h_{k}^{2})(x-x_{k-1})$ 23= = J4= 15 )5 = 5 5  $s(x) = h_k^{-1} \Big[ \frac{1}{6} M_{k-1} (x_k - x)^3 + \frac{1}{6} M_k (x - x_{k-1})^3 + (f(x_{k-1}) -\frac{1}{6}M_{k-1}h_k^2)(x_k-x)+(f(x_k)-\frac{1}{6}M_kh_k^2)(x-x_{k-1})\Big]$ Shorystem roz ze weore by sig apamie 

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1/0 k=1 sig sprowdal