E94084032 ####

$$f(\chi_0) = af(\chi_0 - 2h) + bf(\chi_0 - h) + cf(\chi_0) + df(\chi_0 + h) + ef(\chi_0 + 2h)$$
 $f(\chi_0) = a(f(\chi_0) - 2hf(\chi_0) + \frac{(2h)^2}{2}f(\chi_0) - \frac{(2h)^2}{6}f(\chi_0)$
 $+ \frac{(2h)^4}{24}f(\chi_0) - \frac{(2h)^2}{120}f(\chi_0) - \frac{h^2}{6}f(\chi_0)$
 $+ b(f(\chi_0) - hf(\chi_0) + \frac{h^2}{2}f(\chi_0) - \frac{h^2}{6}f(\chi_0)$
 $+ \frac{h^4}{24}f(\chi_0) - \frac{h^2}{120}f(\chi_0) + \frac{h^2}{6}f(\chi_0)$
 $+ \frac{h^4}{24}f(\chi_0) + \frac{h^2}{120}f(\chi_0) + \frac{h^2}{6}f(\chi_0)$
 $+ e(f(\chi_0) + hf(\chi_0) + \frac{h^2}{2}f(\chi_0) + \frac{(2h)^3}{6}f(\chi_0)$
 $+ e(f(\chi_0) + 2hf(\chi_0) + \frac{(2h)^3}{2}f(\chi_0) + \frac{(2h)^3}{6}f(\chi_0)$
 $+ \frac{(4h)^4}{24}f(\chi_0) + \frac{(2h)^5}{120}f(\chi_0)$
 $+ (-2a - b + d + 2e)f(\chi_0) \times \frac{h^2}{6}$
 $+ (-6a - b + d + 4e)f(\chi_0) \times \frac{h^3}{6}$
 $+ (-6a - b + d + 4e)f(\chi_0) \times \frac{h^3}{6}$
 $+ (-32a - b + d + 32e)f(\chi_0) \times \frac{h^3}{120}$

$$a+b+c+d+e=D$$

$$-2a-b+d-2e=1 留 f(x_0)$$

$$4a+b+d+4e=0$$

 $-8a-b+d+8e=0$
 $16a+b+d+16e=0$

$$a = \frac{1}{12h} b = \frac{2}{-3h} c = 0 d = \frac{2}{3h} e = \frac{1}{-12h}$$

$$f(x_0) = \frac{1}{12h}f(x_0-2h) - \frac{2}{3h}f(x_0-h) + \frac{2}{3h}f(x_0+h) - \frac{1}{12h}f(x_0+2h) + O(ht)$$