(a) $f(x+\Delta x) \approx f(x) + \Delta x f'(x) + \frac{\Delta x^2}{2} f''(x)$ $f(x-\Delta x) \approx f(x) - \Delta x f'(x) + \frac{\Delta x^2}{2} f''(x)$ f(x+Ax)-f(x-Ax)=2Axf'(x) f(x+4x)-f(x-0x) = f(x) f(x+Ax) = 2Axf(x)+f(x-Ax)

f(x) = f+me(x) + E(x) (1(x)=f(x+ax)-f(x)=A f(x+0x)=f(x)+Axf(x) f(x+Ax) = fine (x) + E(x) + x