$$\begin{split} \widetilde{f}_{t}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x}\Big|_{X^{(n)}}, \quad (x - x^{(n)}) \\ \widetilde{f}_{tt}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x}\Big|_{X^{(n)}}, \quad (x - x^{(n)}) \\ \widetilde{f}_{tt}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x}\Big|_{X^{(n)}}, \quad (x - x^{(n)}) \\ \widetilde{f}_{tt}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x}\Big|_{X^{(n)}}, \quad (x - x^{(n)})^{2}, \quad \left(\frac{1}{x} - \frac{1}{x^{(n)}}\right) \\ \widetilde{f}_{tt}(x) &= f(x^{(n)}) + \frac{\partial f}{\partial x}\Big|_{X^{(n)}}, \quad (x - x^{(n)}) + \frac{\partial f}{\partial x}\Big|_$$

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