

Dou-80:
$$(r_{n}(f, x))' = f(x) - \sum_{k=0}^{n} f(x)(x-x_{0})(x-x_{0})^{k} = f'(x) - \sum_{k=0}^{n} f'(x)(x-x_{0})^{k} = f'(x) - \sum_{k=0}^{n} f'(x)(x-x_{0})^{k} = f'(x) - \sum_{k=0}^{n} f'(x)(x-x_{0})^{k} = f'(x) - \sum_{k=0}^{n} f'(x)(x-x_{0})(x-x_{0})^{k} = f'(x)(x$$