$$\int_{k}^{k+1} P(t)dt = \int_{k}^{k+1} \frac{(t-t_{2})(t-t_{3})}{(t_{1}-t_{3})(t_{1}-t_{3})} + V_{2} \frac{(t-t_{1})(t-t_{3})}{(t_{2}-t_{1})(t_{3}-t_{3})} + \cdots$$

$$t_{n} = f(t_{n},f_{n}) \qquad (t_{3}-t_{1})(t_{3}-t_{2})$$

$$f(t_{n},f_{n}) = f(t_{n},f_{n})$$