第 页

$$\frac{1}{dt} \left[f_{i}(t) * f_{i}(t) \right] = \frac{d}{dt} \left[\int_{-\infty}^{+\infty} f_{i}(t) \int_{0}^{t}(t) dt \right]$$

$$= \int_{-\infty}^{+\infty} \frac{d}{dt} f_{i}(t-t) f_{i}(t) dt$$

$$= \int_{-\infty}^{+\infty} \frac{d}{dt} f_{i}(t-t) f_{i}(t) dt$$

$$= \frac{df_{i}(t)}{dt} * f_{i}(t)$$

$$= \frac{df_{i}(t)}{dt} * f_{i}(t) = f_{i}(t) * \left[\frac{d}{dt} f_{i}(t) \right]$$

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$$= \frac{df_{i}(t)}{dt} * f_{i}(t) * f_{i}(t) = f_{i}(t) * \left[\frac{d}{dt} f_{i}(t) \right]$$

$$= \frac{df_{i}(t)}{dt} *$$

数学作业纸

班级:

姓名:

编号:

科目:

第

3,

$$f(t) * (ut) = \int_{-\infty}^{+\infty} f(t-t) |ut| dt$$

$$= \int_{-\infty}^{\infty} f(t-t) |ut| dt + \int_{0}^{+\infty} f(t-t) |ut| dt$$

$$= 0 + \int_{0}^{+\infty} f(t-t) |dt|$$

$$= \int_{0}^{+\infty} f(x) dx$$

$$= \int_{0}^{+\infty} f(t) dt \int_{-\infty}^{+\infty} f(x) dx$$

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