

Exercise 6

Use the *modified decomposition method* to solve the following Volterra integral equations:

$$u(x) = e^{-x^2} - \frac{x}{2}(1 - e^{-x^2}) - \int_0^x xt u(t) dt$$

[TYPO: In order to get the answer at the back of the book, this minus sign must be a plus sign.]