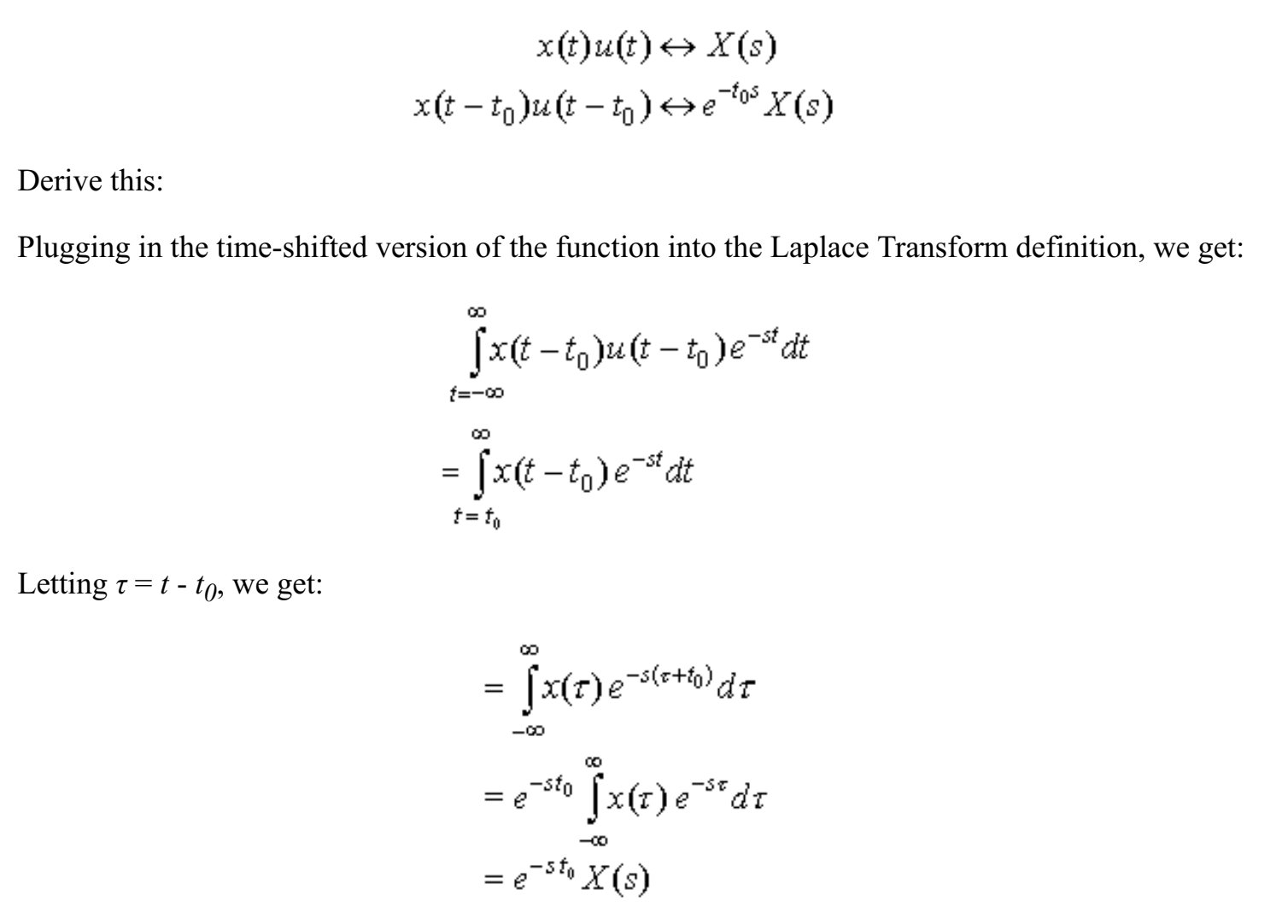
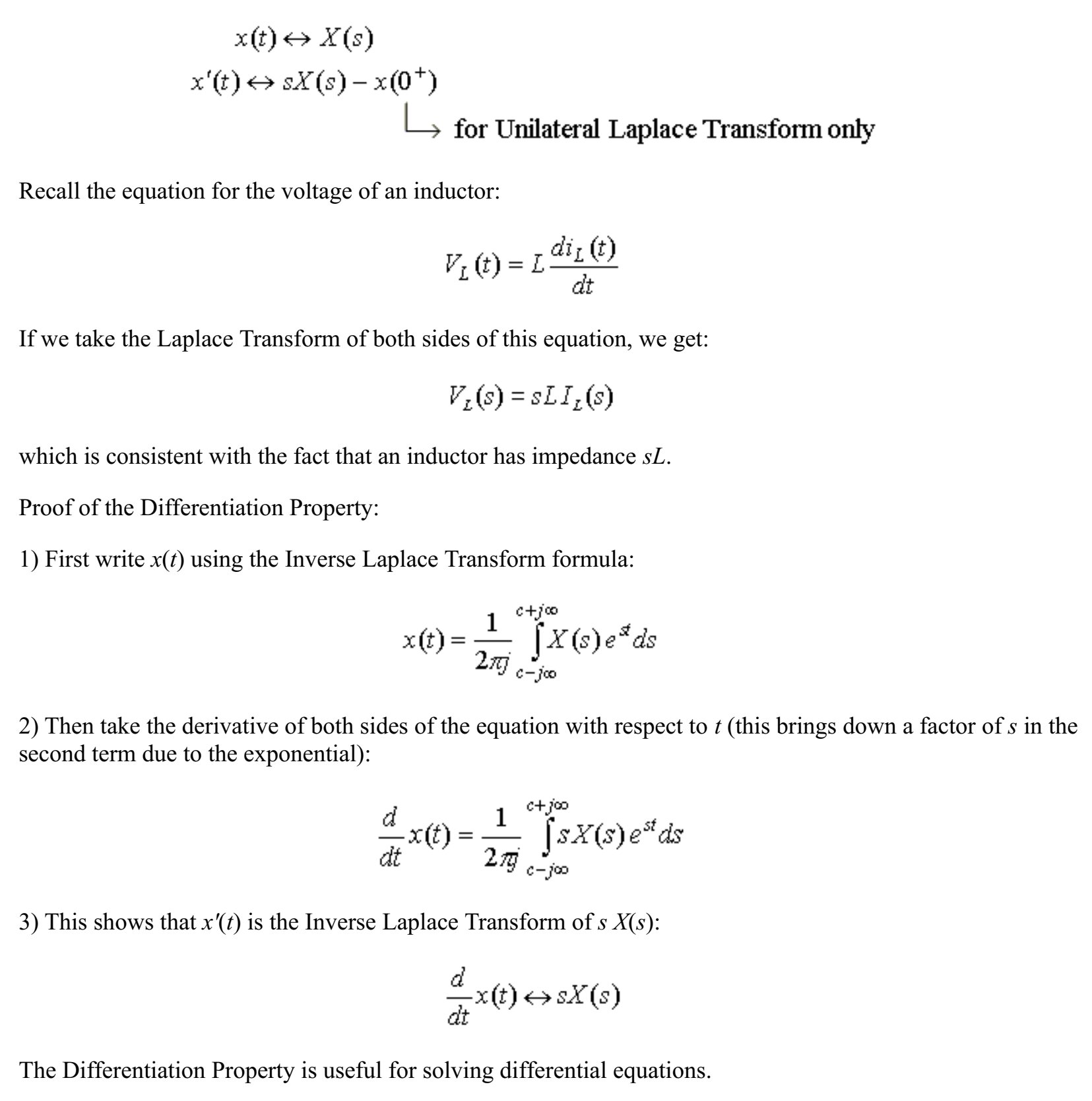
## Laplace Transform Properties

There are a number of properties that can simplify taking Laplace Transforms and finding their inverse. We'll cover a few properties here and you can read about the rest in the textbook and in the Irwin Power Point Lecture notes for Chapters [13](https://www.dropbox.com/s/paof9sexk8okzny/LaplaceTransformRev8Ed.ppt?dl=0) (Laplace Transform) and [14](https://www.dropbox.com/s/0022o125yf3lidy/ApplicationOfLaplaceToCircuits8Ed.ppt?dl=0) (Laplace Transform Applications) which cover the properties and their use in the puzzle solving that is involved in doing the Inverse Laplace Transform without resorting to doing a contour integral in the complex s-plane.

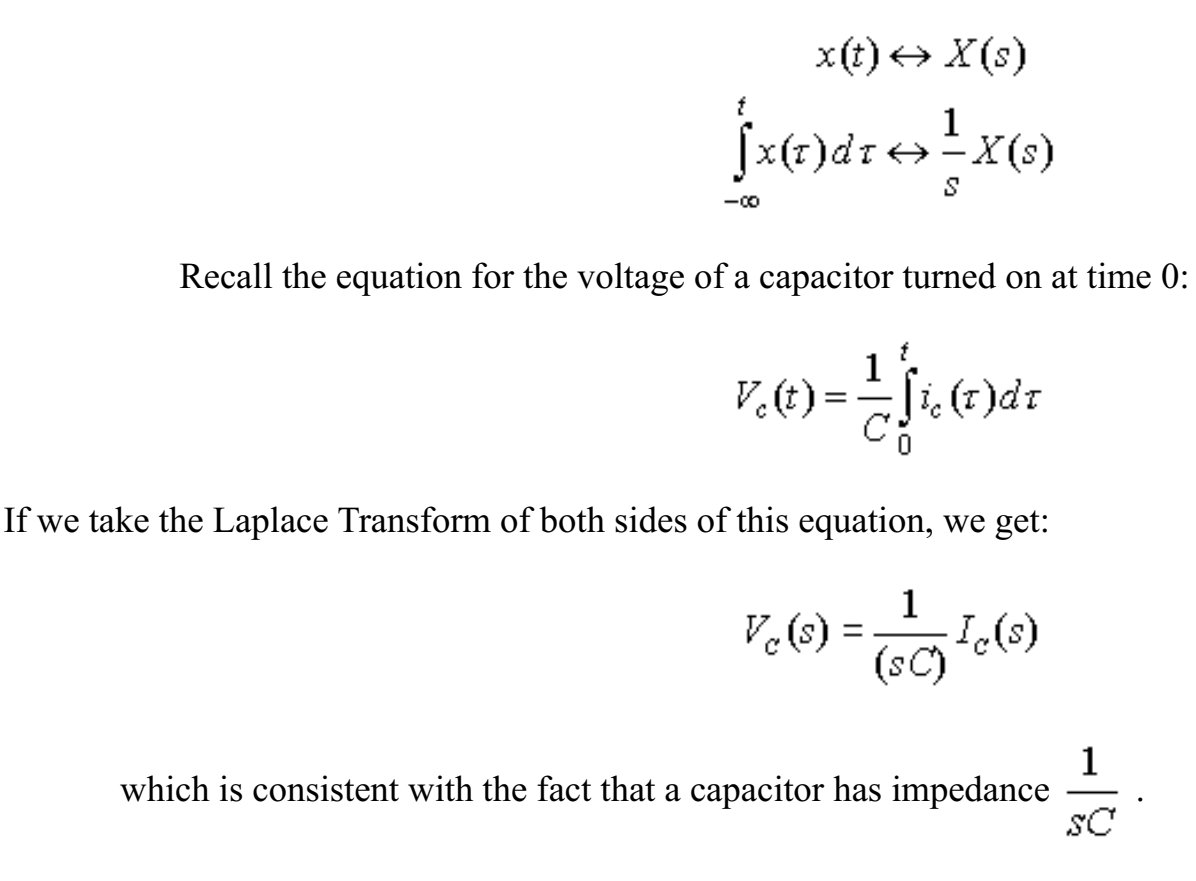
### Real Time Shifting



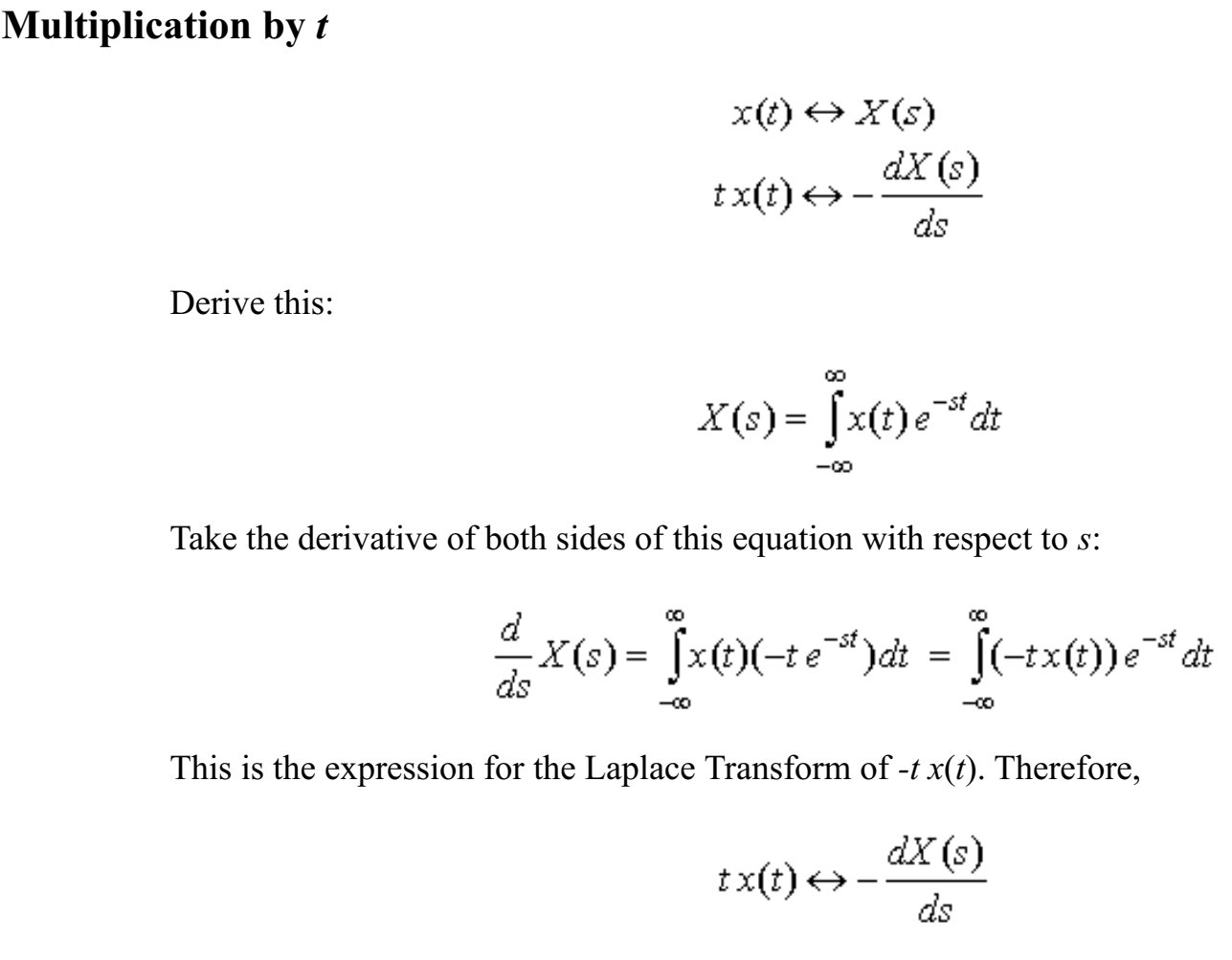
### Differentiation



### Integration



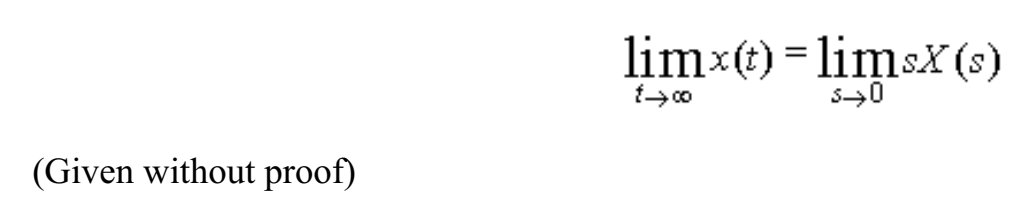
### Additional Properties



### Initial Value



### Final Value



### **Independent-Variable Transformation (for Unilateral Laplace Transform)**

