## Hermite interpolation problem for Homework 4

Using the Newton divided differences form, find the polynomial of degree $\leq 3$ such that $p(0)=1, p^{\prime}(0)=2, p(1)=1, p^{\prime}(1)=-1$.

Hint: use the properties of Newton divided differences when some of the node points $x_{j}$ are coincident, namely (4.29) and (4.30) in Section 4.1.5.


