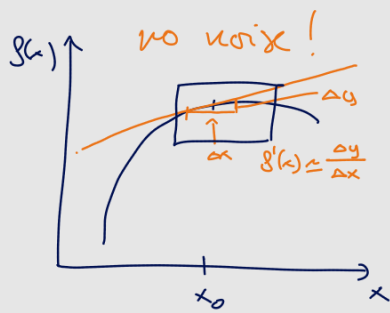
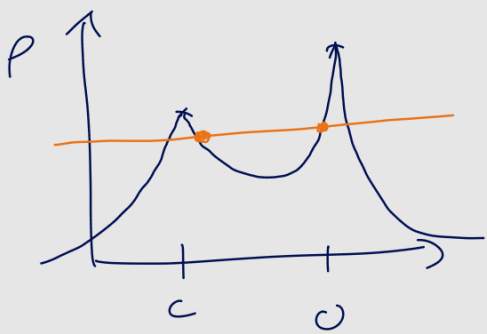




$$\rho(\vec{r}) \equiv \sum_i \|\psi_i\|^2$$

$$\nabla \rho(\vec{r}) = \nabla \sum_i \|\psi_i\|^2$$

$$\chi = \sum_i \|\nabla \psi_i\|^2$$

