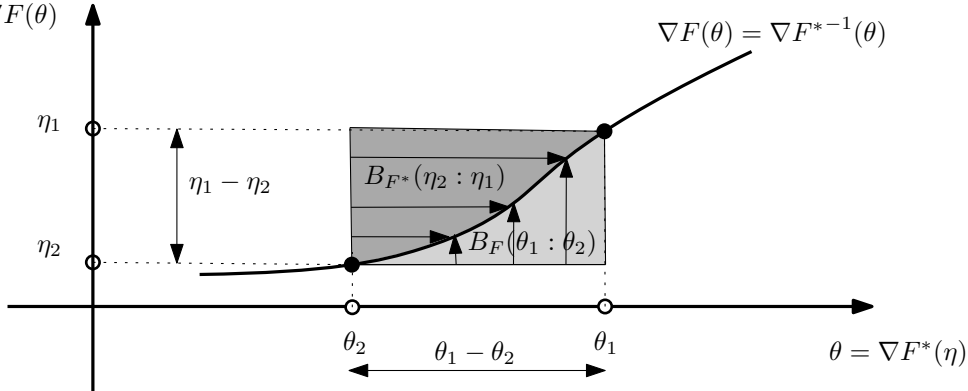


$$\eta = \nabla F(\theta)$$



$$B_F(\theta_1 : \theta_2) = \int_{\theta_2}^{\theta_1} (F'(\theta) - F'(\theta_2)) d\theta, \quad S_F(\theta_1, \theta_2) = B_F(\theta_1 : \theta_2) + L_F(\theta_1 - \theta_2)$$

$$B_{F^*}(\eta_2 : \eta_1) = \int_{\eta_1}^{\eta_2} (F^{*'}(\eta) - F^{*'}(\eta_1)) d\eta, \quad S_F(\theta_1, \theta_2) = B_F(\theta_1 : \theta_2) + L_F(\theta_1 - \theta_2)$$

$$= (\theta_1 - \theta_2)^\top (\eta_1 - \eta_2)$$