Exercise 6.2

Show that 
$$\frac{1}{2^n}(\kappa_1 - \kappa_2) \cdot (\kappa_1) = 0$$
 for local linear regression before  $b_1(\kappa_1) = \frac{1}{2^n}(\kappa_1 - \kappa_2) \cdot (\kappa_1) = 0$  for local linear regression before  $b_1(\kappa_1) = \frac{1}{2^n}(\kappa_1 - \kappa_2) \cdot (\kappa_1) = 0$  for local linear regression before  $b_1(\kappa_1) = \frac{1}{2^n}(\kappa_1 - \kappa_2) \cdot (\kappa_1 - \kappa_2) \cdot (\kappa_1) = 0$  for  $k \in \mathbb{N}$  fine  $k \in \mathbb{N}$ . The converge of the  $k \in \mathbb{N}$  fine  $k \in \mathbb{N}$  for  $k \in \mathbb{N}$