$$b = \beta + (X'X)^{-1}X'\varepsilon$$

$$E(b) = E\left[\beta + (X'X)^{-1}X'\varepsilon\right]$$

$$E(b) = E(\beta) + E\left[(X'X)^{-1}X'\varepsilon\right]$$

$$E(b) = \beta + (X'X)^{-1}X'\underbrace{E(\varepsilon)}_{0} \Rightarrow E(b) = \beta$$

$$E(\varepsilon|X) = 0$$

$$E_X[E(\varepsilon|X)] = E(\varepsilon) \Rightarrow \boxed{E(\varepsilon) = 0}$$

$$E(x'\varepsilon) = E_x[E(x'\varepsilon|X)] = E_x[x'\underbrace{E(\varepsilon|X)}_{0}] = 0$$

$$cov(X,\varepsilon) = \underbrace{E(x'\varepsilon)}_{0} - E(x)\underbrace{E(\varepsilon)}_{0} = 0$$

$$Experiencia = age - (educ + 6)$$