Regression of beauty weight on breast circumpence Model: y = XB+e y = 2.50 ) B= [intercept regression coefficient]  $e = \begin{bmatrix} e_1 \\ \vdots \\ e_{16} \end{bmatrix} / X = \begin{bmatrix} 1 & 1.62 \\ 1 & 1.96 \end{bmatrix}$ Goal gel estimates for unknown & using least squares.  $\beta = (x^{T}x)^{-1} x^{T}y$  ;  $se_r = \sqrt{\frac{1}{n-2}} \frac{2}{5} r_i^{2}$ verify with R: Lm()