Practical 4 - Linear Regression (one analytical example on Linear Regression)

Given:) data $\mathcal{X} = \left\{ \begin{pmatrix} -1 \\ 2 \end{pmatrix}, \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \begin{pmatrix} 1 \\ 1 \end{pmatrix} \right\}$ - features

Task:) Fit poly nomials of degree D = 0, 1, 2to the data and compare the

corresponding least-squares errors $E(w) = \frac{1}{2} \sum_{n=1}^{3} (y_n(x_n; w) - t_n)^2$.