IM343
HOMEWORK VI (Due on 29.11.2019)

Q1) The following data defines the sea-level concentration of dissolved oxygen (DO) for fresh water as a function of temperature (T):

T (^oC)	8	16	24	32
DO (mg/L)	11.843	9.87	8.418	7.305

a) Determine which of T and DO are dependend and independend variables.
b) Estimate DO(27) (DO at T=27 ^oC) using linear interpolation. Find percent error in your estimation if the exact value is DO(27)=7.986 mg/L.
c) Estimate DO(27) using the possible highest order Newton's interpolating polynomial. Find percent error in your estimation if the exact value is DO(27)=7.986 mg/L.
d) Estimate DO(27) using the possible highest order Lagrange interpolating polynomial. Find percent error in your estimation if the exact value is DO(27)=7.986 mg/L.