1. You are running an experiment, where you are diffusing copper into aluminum. So far you have determined the diffusivity to be 4.892 x 10^{-17} m^2/s at 300°C and 4.456 x 10^{-14} m^2/s at 500°C. Using the diffusion coefficients you have determined at these two temperatures, calculate:

    R=8.314 J/mol*K

    a. the activation energy, Qd, for Cu diffusion into Al.

    b. the diffusion coefficient, D at 600°C.