Additional Question (will not be marked)

Please derive the real power, reactive power, and complex power delivered to the load for four kinds of a-b-c sequence, balanced source and balanced load three-phase circuits (Y-Y, Y-Δ, Δ-Y, Δ-Δ). The RMS phase voltages for all four circuits are equal to $\mathbf{V_S \angle \theta}$ (for source-a, $\boldsymbol{\theta} = 0°$) and the impedances connected in each phase for all four circuits are $\mathbf{Z = R + jX}$. All sources are ideal ones and all line voltage drops are equal to zero.