$$E = \rho^{a} A \rho^{-a} \rho^{b} B \rho^{-b} \rho^{c} C \rho^{-c}$$
$$D = \rho^{c} C^{-1} \rho^{-c} \rho^{b} B^{-1} \rho^{-b} \rho^{a} A^{-1} \rho^{-a}$$