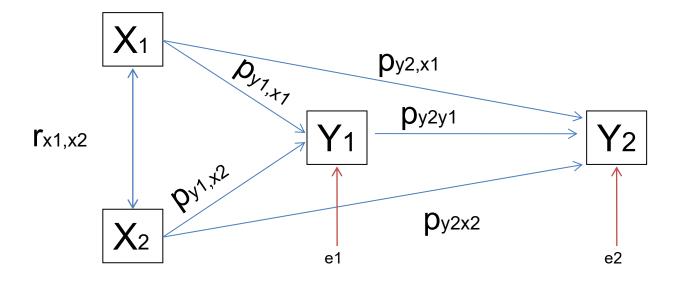
Homework2

This homework is focused on the path model used for introducing into path analysis (see below):

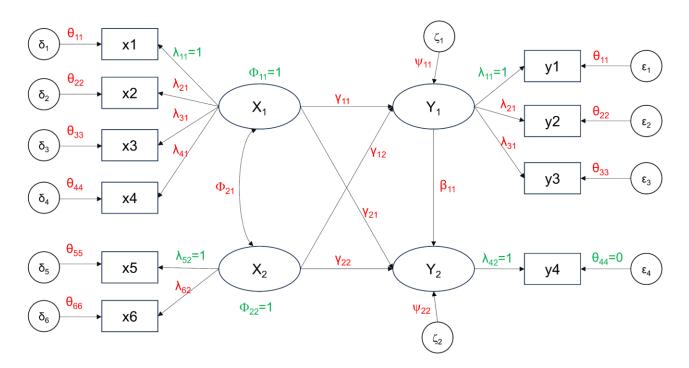


where X₁ represents memory, X₂ creativity, Y₁ thinking and Y₂ problem solving ability.

This model can also be investigated as a structural equation model. In order to do so, it needs to be turned into such a SEM model. The following tasks serve this purpose:

- 1. Transform the path-analysis diagram into a structural equation diagram (consider the X and Y variables as latent variables and add several manifest variables to each latent variable).
- 2. Add the parameters that have to be estimated to your diagram.
- 3. Compute the degrees of freedom for the whole model.

See below



S = n(n+1)/2 = 55, numOfFix = 7, t = 23 **Degree = s - t = 32**, the model is identified