**Homework2**

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

X1

X2

Y1

Y2

e1

e2

py2,x1

py2x2

rx1,x2

py1,x1

py1,x2

py2y1

**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**

