

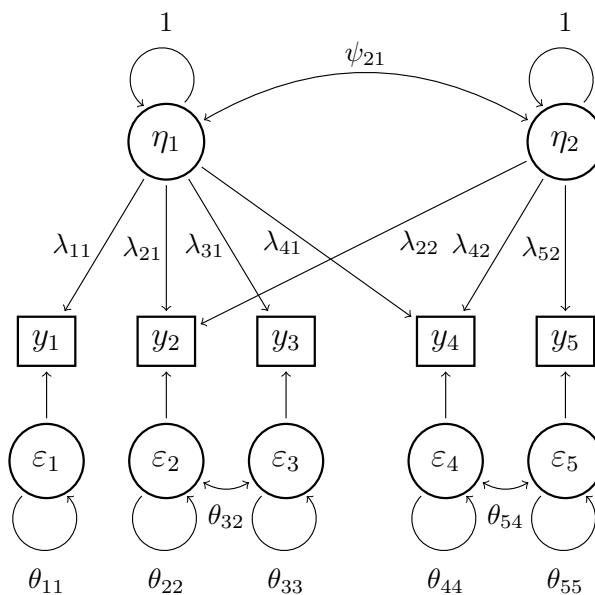
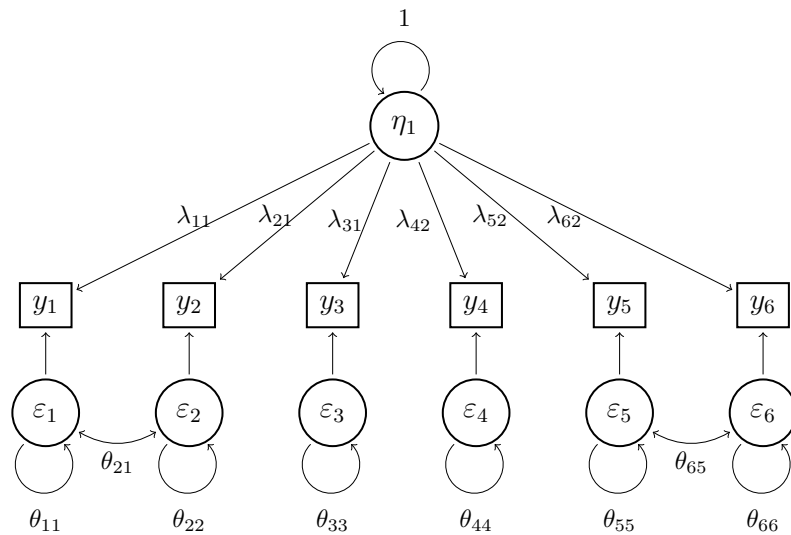
PSYC 4301: Psychological Tests and Measurements

Tarleton State University

Homework 8

1. Consider the following two path models. For each, answer the following questions:

- How many observations does this model account for?
- How many parameters are in the model?
- How many degrees of freedom does this model have?
- Is the model identified? Why/why not?



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2. For this exercise, you'll use the `hw7data.csv` file from the last homework assignment.
 - (a) Draw a path model based on the factor structure you extracted in the last homework. You should have 3 factors and no cross-loadings.
 - (b) Perform a confirmatory factor analysis for this model in JASP. Write down your estimates for (1) the factor loadings, (2) the factor covariances, and (3) the residual variances.
 - (c) Report and interpret two measures of model fit to assess how well your model explains the observed data: (1) the χ^2 test, and (2) the RMSEA.