**Q1: Compare the two resulting figures with the network shown in figure 2 above.**

It is obvious that the two resulting figures are totally different with figure 2 above.

**Q2:**

**Inspect the matrix with Pearson correlations.**

It is a symmetric matrix, with diagonal "ones"

**Inspect the correlation between metabolites F16bP on the one hand with F6P, TRIO and BPG on the other hand using the plot function of R**

F16b is positively correlated with F6P and TRIO, but the correlation with TRIO is stronger.

F16b has no correlation with BPG.

**Comment on your findings and interpret the results.**

The network is meaningless, containing too many edges, and has a very low G-score: 0.40. The problem is caused by too much false positive.

**Q3: 1. Visualize the network with the script for the partial correlation network. Concentrate**

**on the without P network.**

**2. Calculate the tp, tn, fp, fn, tpr, tnr and g-scores.**

**3. Compare with the network of exercise 2.**

**Comment on your findings and interpret the results**

This graph removed all of the meaningless edges in last graph, however, it also removed some of the “true” edges existing in the true network. It even has a lower G-score, which is 0.30, resulting from too much false negative (i.e. too many “true” edges we)