0. (poset of graphical matroids)  
Convince yourself that the following is the poset on graphs on \([n]\) whose covering relation is given by

\[
g \preceq h \iff \text{every circuit of } h \text{ is union of circuits in } g.
\]

1. (a) Give an example of a graphical matroid \(M\) of rank 3 on \([6]\).
   (b) Determine all the graphical matroids \(N\) of rank 3 on \([6]\) such that \(N \preceq M\).
   (c) How can you tell those are all?

2. (LPMs)
   (a) Determine which graphical matroids from exercise 0 are LPMs.
   (b) Draw the poset of exercise 0 using LPMs.
   (c) What would be the covering relation in terms of LPMs?