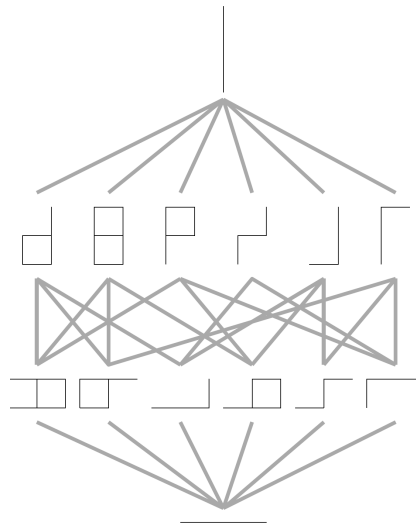# MSF - TAREA 3

CAROLINA BENEDETTI VELÁSQUEZ AND JERÓNIMO VALENCIA

0. Recall the poset LPM_3

Choose a saturated chain. Provide a matrix realization of the saturated chain you chose.

1. Draw a covering relation of LPM_4 and another one for LPM_5.

2. Prove that the following covering relations hold:
$$M[15, 47] \lessdot M[125, 467] \quad \text{and} \quad M[125, 467] \lessdot M[1245, 4567].$$

3. True of false: $M[15, 47] \leq M[1245, 4567]$.

4. Give an example of an LPM M' of rank 3 on $[7]$, such that $M' \nleq M[1245, 4567]$.