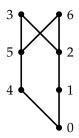
WEEK FIFTEEN - FIRST FINAL EXAM

Exercise 1. Let (A, \leq) be a p.o.c. Suppose that there are two maximal chains $C \neq D$. Then A is not a f.o.c.

Exercise 2. Is it true that $\mathcal{P}(2)=4$? explain (and remember that $2=\{0,1\}$ and $4=\{0,1,2,3\}$)!

Exercise 3. The following graph represents an order relation



Please, write

- (1) the maximal chains
- (2) the sections which contain 1 and 5
- (3) how many different initial segments are there.