EXERCISES (TO GET +0.5 TO THE FINAL MARK; SEND SOLUTIONS BY EMAIL)

- 1. Part 1, Exercise 8
- 2. Prove (C3) of Part 3

Hint for the property (C3), PART 3 Prove that $X \perp Y \implies X \perp \!\!\!\perp Y \mid Y$

Start with $P(X \in A, Y \in B | Y \in C) = \dots TO \ COMPLETE \dots$ = $P(X \in A | Y \in C)P(Y \in B | Y \in C)$

3. Prove that (L) \Rightarrow (P), PART 3

Hint: Simplify Lauritzen's proof from the lecture

4. Prove that (F) \Rightarrow (P), PART 3.

Deduce that $(F) \Rightarrow (G)$.