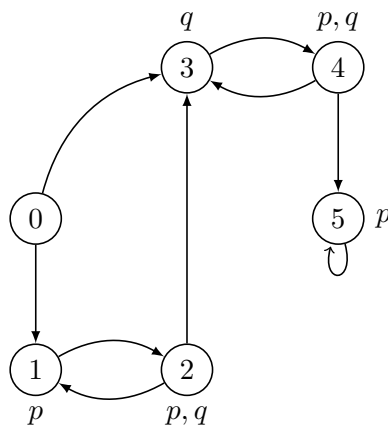


Homework 4

To hand in on October 21st at the beginning of the exercise session, or by mail (before 14:00) at leroux@lsv.fr.

Answers can be written in french or in english.

We give the following Kripke structure:



and the following CTL formula:

$$\phi = E((AF EG p) U (AG EX q)) \vee A((EX EG p) U q)$$

For each state sub-formula ψ of ϕ , compute the set of states satisfying ψ .