Temporal logic: Encoding

- A certain process is *enabled* infinitely often on every computation path
- Whatever happens, a certain process will eventually be permanently *deadlock*ed
- An upwards (*up*) travelling lift at the second floor (*floor2*) does not change its direction when it has passengers wishing to go to the fifth floor (*floor5*)

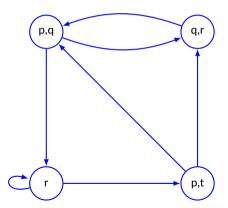# Temporal logic: Equivalence

- **Check equivalence**
  - $AG\, p \equiv p \wedge AX\, AG\, p$ – **?**
  - $EF\, p \equiv p \vee EX\, EF\, p$ – **?**

Temporal logic: model checking

- **Find the set of states in which the following CTL properties hold.**
  - *AF q*
  - *AG(EF(p ∨ r))*