

# EL2450 HOMEWORK 1

Andreas Froderberg - 19880730-4577  
Martin Favre - 19920130-0010

**Q 1:** A gain named Tap exists in the Tank 1 model, what is its function?

**A:** The gain Tap models the openable tap on the upper tank. The value 0 means that it is currently closed. A value of 1 means fully opened.

**Q 2:** Place the poles to give a following step response:

- Rise time less than 6s
- Overshoot less than 35
- Settling-time less than 30s

**A:** Done.