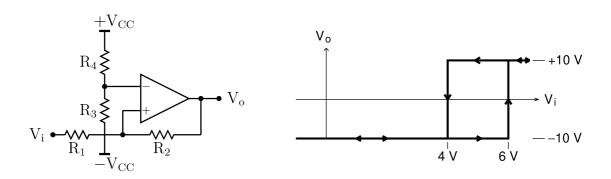
Electronic Instrumentation Problem sheet: OpAmps

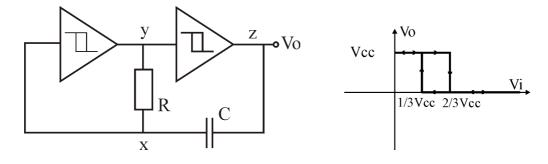
2011/2012 module 2 P. Stallinga



1: Design the circuit below so that it is bistable with the following relation between V_{\circ} and V_{i} :



2: Consider the instable circuit ('oscillator') implemented with two Schmitt-triggers:



- a) Explain how the circuit works by sketching the voltages as a function of time in the points **x**, **y** and **z**.
- b) Determine the period of oscillation of the circuit.
- c) Give values for R and C to result in an oscillation frequency equal to f = 10 kHz.