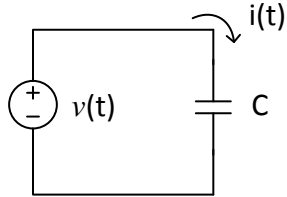
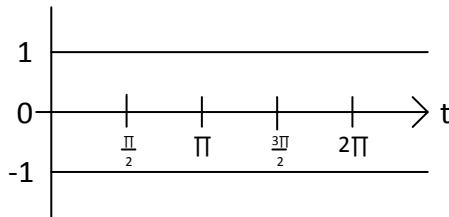


1. Can you have a circuit in which no current flows when the voltage is maximum, and no voltage pressure when current is maximum?

a) Consider this circuit. Using phasors, solve for $i(t)$ when $v(t) = \cos(t)$ and $C = 1\text{F}$



b) Now plot $i(t)$ and $v(t)$ below. Where is $v(t)$ max? $i(t)$ max?



2. Find the Thevenin equivalent of the circuit below:

