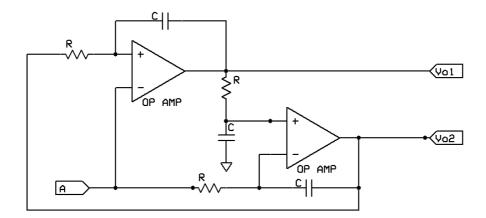
## Handout RC Oscillators

The following schematic represents an oscillator topology denominated Quadrature oscillator. The distictive characteristic of this oscillator is that it generates two signals, Vo1 y Vo2, which keep a fixed phase difference between them.



Please, answer the following questions related to the above schematic:

- 1. Assuming that node A is set to ground, calculate the loop gain of the oscillator in the Laplace domain.
- 2. From the previous expression, give the expression for the frequency of oscillation.
- 3. Can you determine which is the phase difference between the two outputs, Vo1 and Vo2.