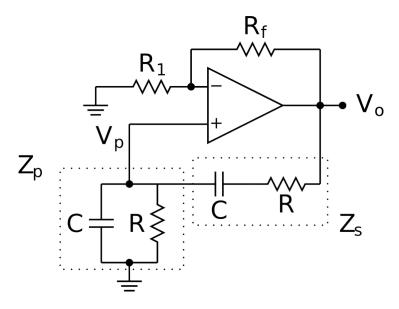
Electronics II Wien Oscillator





MIEET 3° ano

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The above circuit is a Wien Oscillator. It consists of an ideal opamp with negative feedback composed of R1 and R2, and a branch with positive feedback, composed of two RC networks.

- What is the gain A of the circuit composed of the opamp and the two resistors R1 and R2? Consider the input at the + terminal.
- Analyze the circuit and determine the Barkhausen Criterion for oscillation.
- Give values for the components to get a pure sinusoidal oscillation at 10 kHz.