

# CENG4480 Lab2: Op Amp (2)

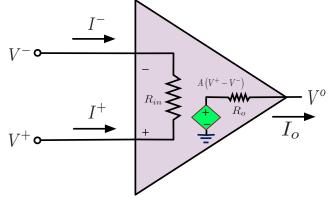
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# Golden Rule of an Ideal Op Amp

► *R<sub>in</sub>* goes infinity

 $\blacktriangleright I^+ = I^- = 0$ 

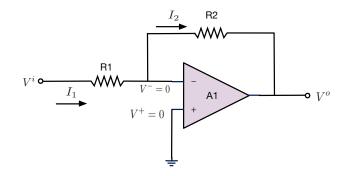


An Ideal Op Amp.



#### Golden Rule of an Ideal Op Amp with Negative Feedback

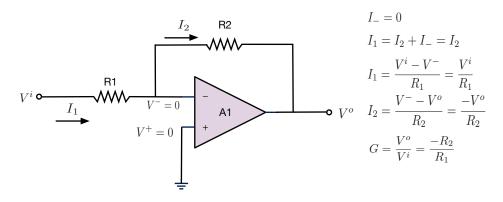
►  $V^+ = V^-$ 



An Inverting Amplifier.

### Analysis on Circuit with An Ideal Op Amp

• 
$$I^+ = I^- = 0$$
  
•  $V^+ = V^-$ 



Analysis on Inverting Amplifier.

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### Suggestions for Experiments

- Be careful about the offset value.
- ▶ ⓒ Use digital multimeter to obtain resistances, capacitances etc.

