

Electronics-1 - 1st lecture.

Short outline -

Circuits review

Op-amps

Diodes

Transistor circuits

Amplifiers

Switches

Logic circuits

Simulation - We will simulate everything, even the short exercises. It is a quick way to see if you have the right answer.

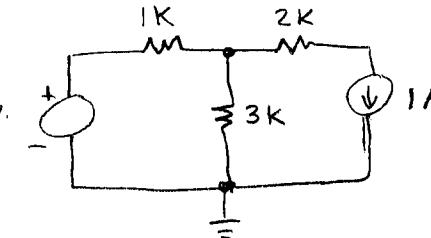
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HW
Review circuits.
"Techniques of circuit analysis"

Read Chapter 1
to see what's to come

Circuits review ---

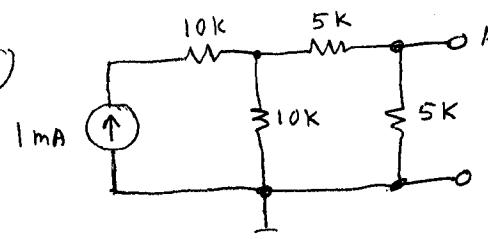
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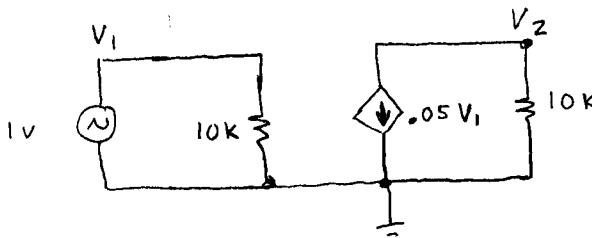
Find all voltages & currents.

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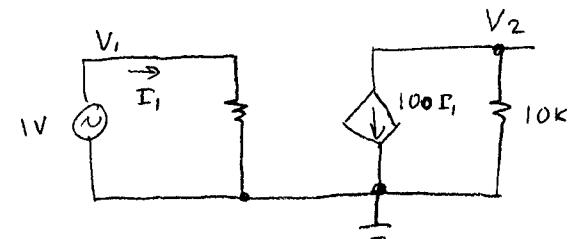


Find an equivalent circuit as seen at A-B, that has only a voltage source and resistor.

③



Find the gain
 $\frac{V_2}{V_1}$



Find the gain
 $\frac{V_2}{V_1}$