Lecture 2: Part II

Circuits Continued

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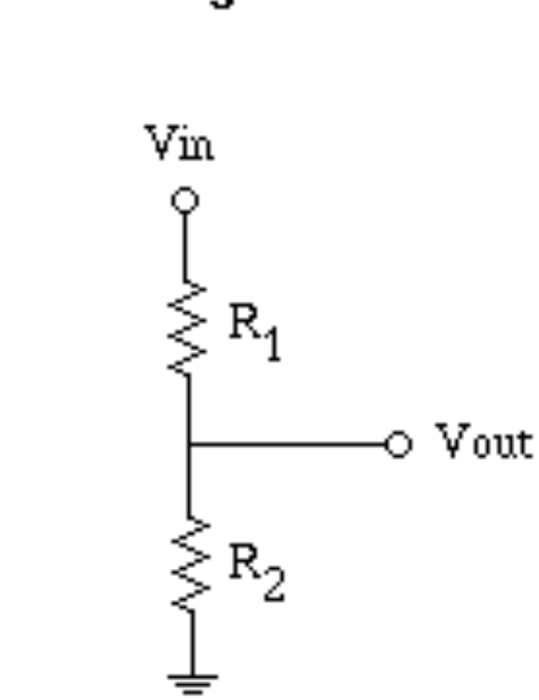
Homework

Make up (and solve) your own example circuit that minimally requires the solving of three equations and three unknowns.

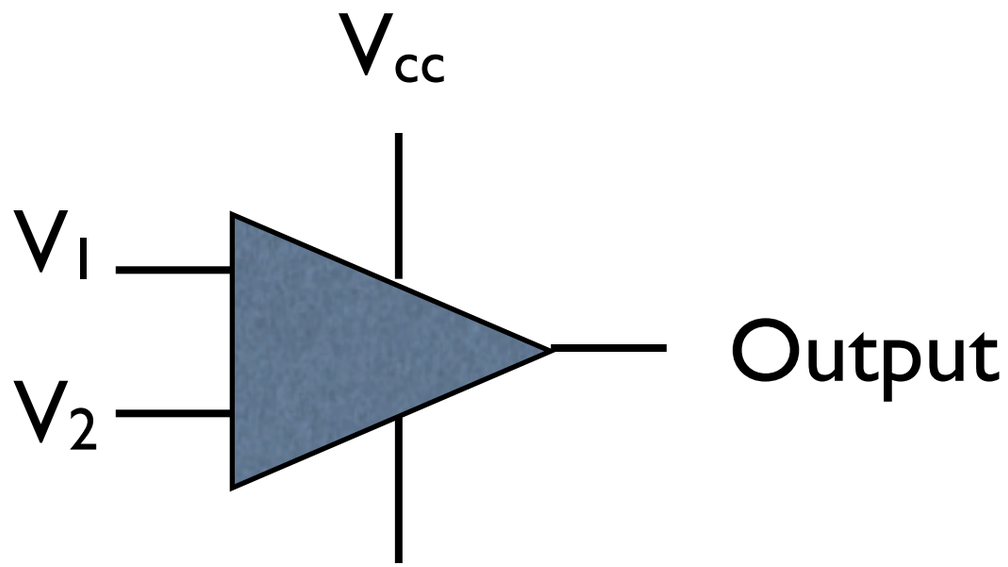
Voltage Divider



$$V_{out} = \frac{R_2}{R_1 + R_2} V_{in}$$

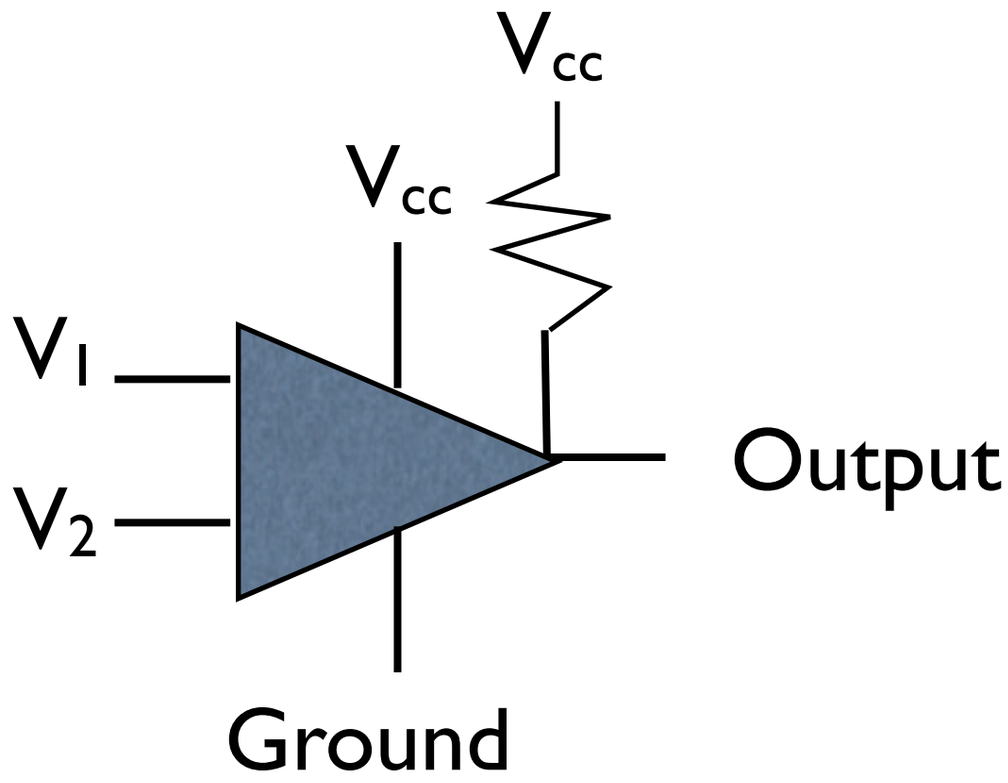
web.mit.edu/rec/www/ workshop/voltage-divider.gif

Comparator



When $V_1 > V_2$ the output is set to high (V_{cc})
otherwise the output is set to low.

Comparator Continued
Open Drain



Homework

1.) What is an Inductor?
2.) What's a Capacitor?
3.) How does an RLC circuit work
4.) How do RLC's relate to MSD's