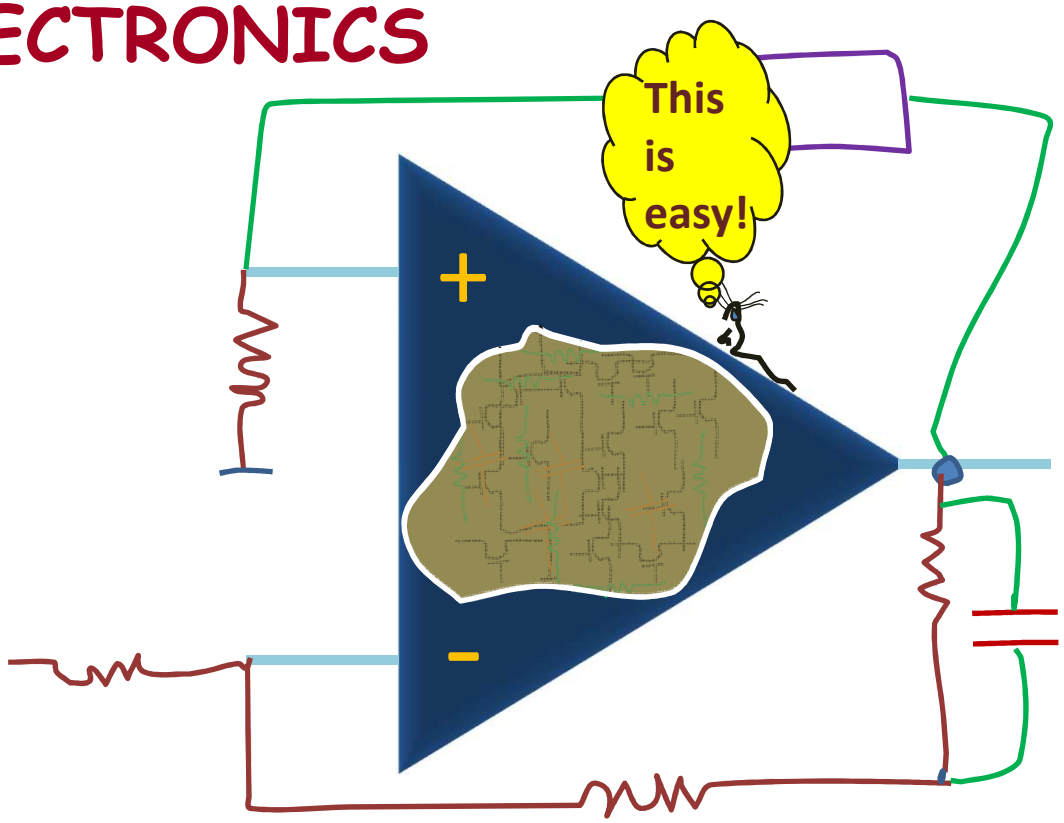
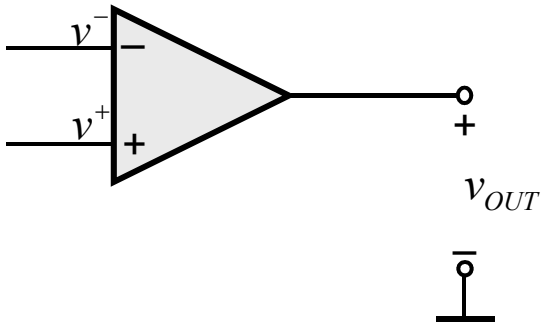
6.002x CIRCUITS AND ELECTRONICS

Operational Amplifier Circuits

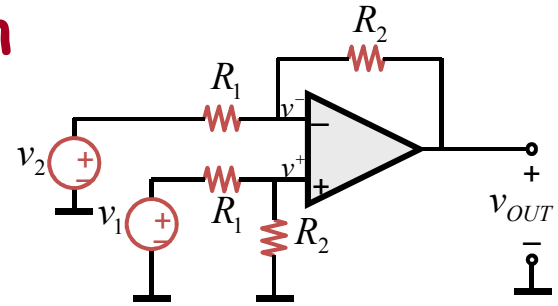


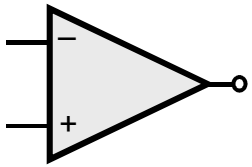
Review Operational amplifier abstraction

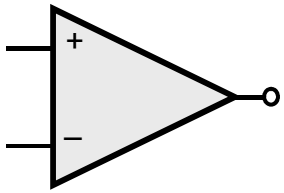
Consider this circuit:



Another way of solving — use superposition







Let's build an integrator…

First try… use resistor

First try… use resistor

There's a better way…

Now, let's build a differentiator…

Differentiator…

Op Amp Filters

Problems with passive RLC filters

Brute force approach

Op Amps and impedances

Op Amp filter example

Nonlinear Op Amp circuits

Another nonlinear Op Amp circuit