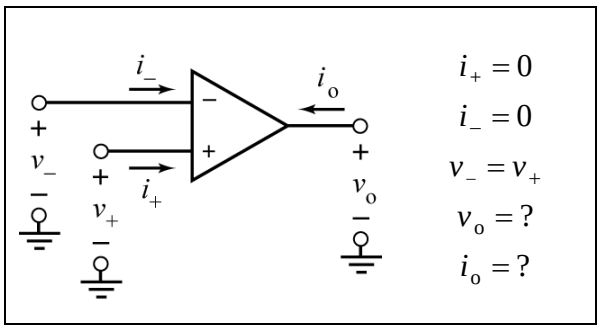
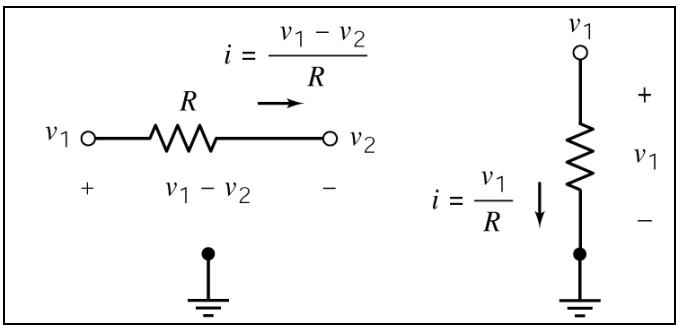
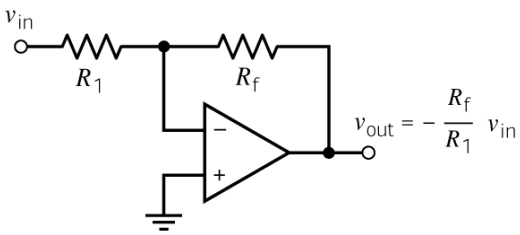
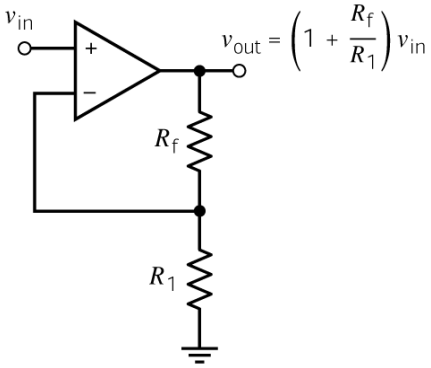


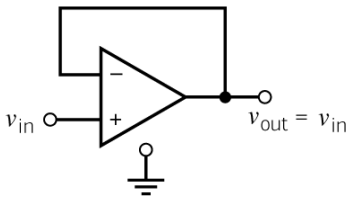




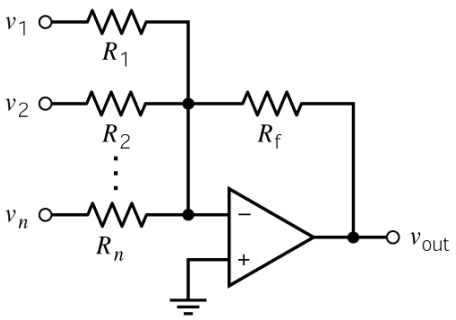
(a) Inverting amplifier



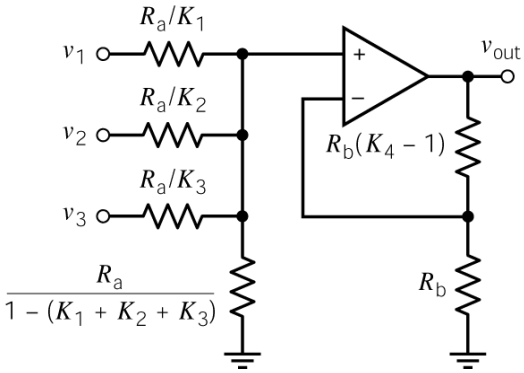
(b) Noninverting amplifier



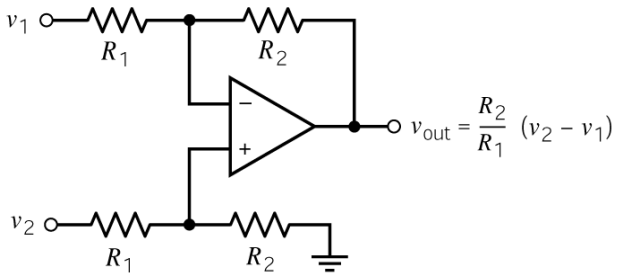
(c) Voltage follower (buffer amplifier)



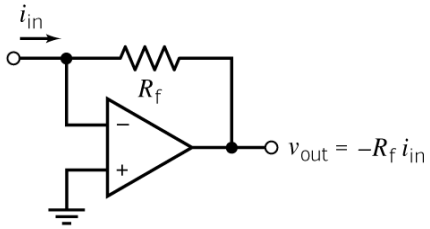
(d) Summing amplifier



(e) Noninverting summing amplifier



(f) Difference amplifier



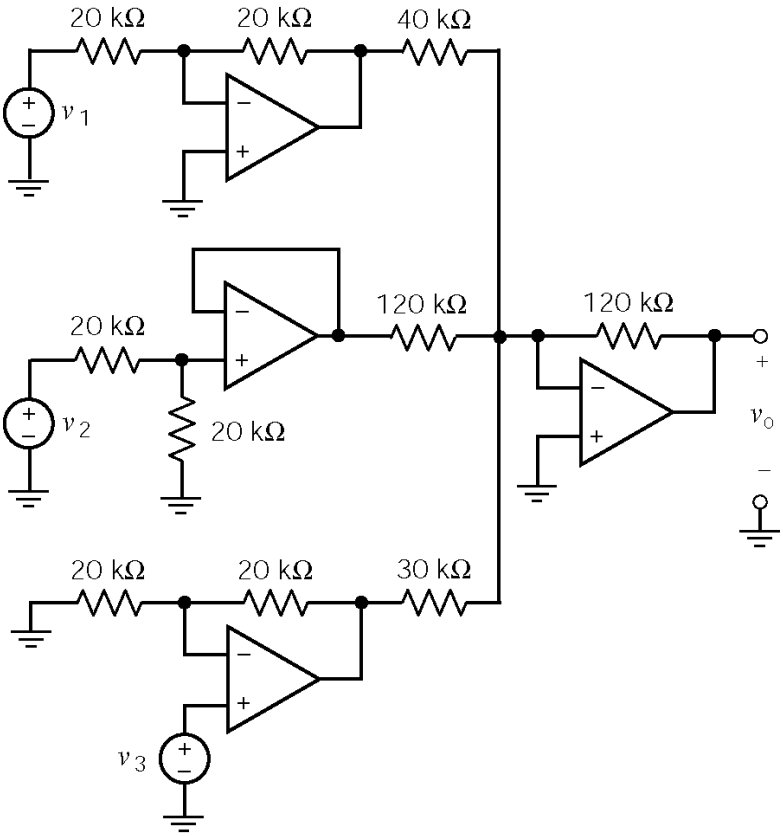
(g) Current-to-voltage converter

1. This circuit has three inputs: v_1, v_2 and v_3. The output of the circuit is v_o. The output is related to the inputs by

$$v_o = a\,v_1 + b\,v_2 + c\,v_3$$

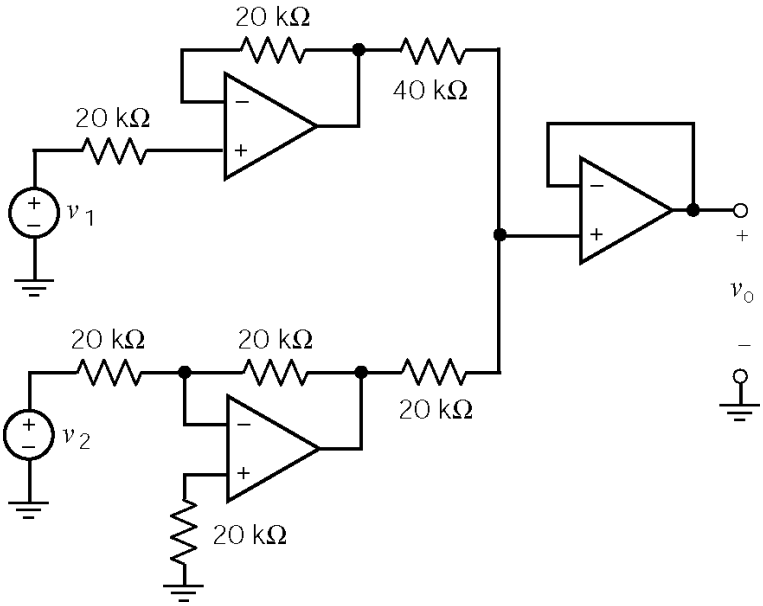
where *a*, *b* and *c* are constants.

Determine the values of *a*, *b* and *c*.



2. This circuit has two inputs: v_1 and v_2. The output of the circuit is v_o. The output is related to the inputs by

$$v_o = a\,v_1 + b\,v_2$$

where *a* and *b* are constants.

Determine the values of *a* and *b*.