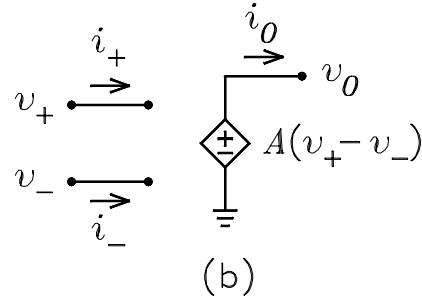
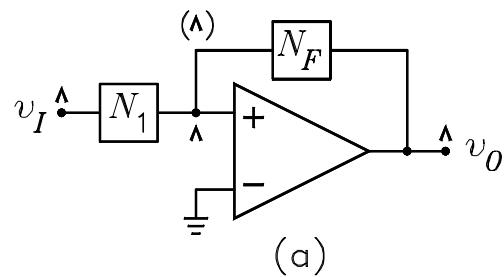


(a)

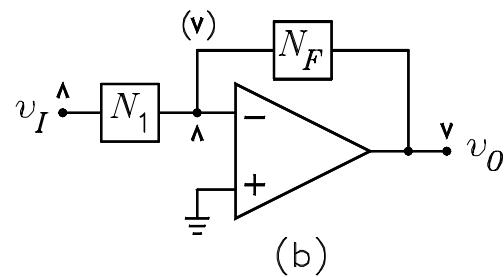


(b)

(a) Circuit symbol for the ideal op amp. (b) Controlled-source model.

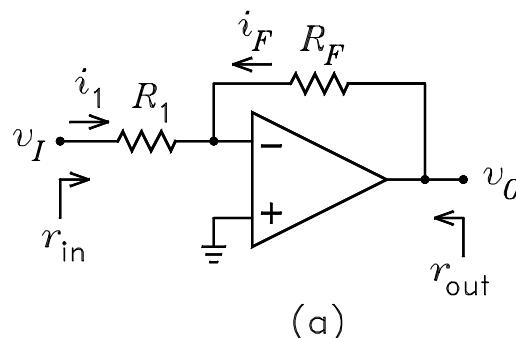


(a)

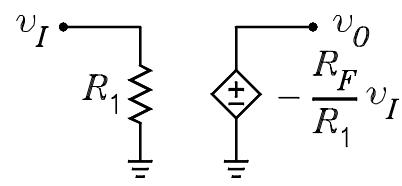


(b)

(a) Op amp with positive feedback. (b) Op amp with negative feedback.



(a)



(b)

(a) Inverting amplifier. (b) Controlled-source equivalent circuit.