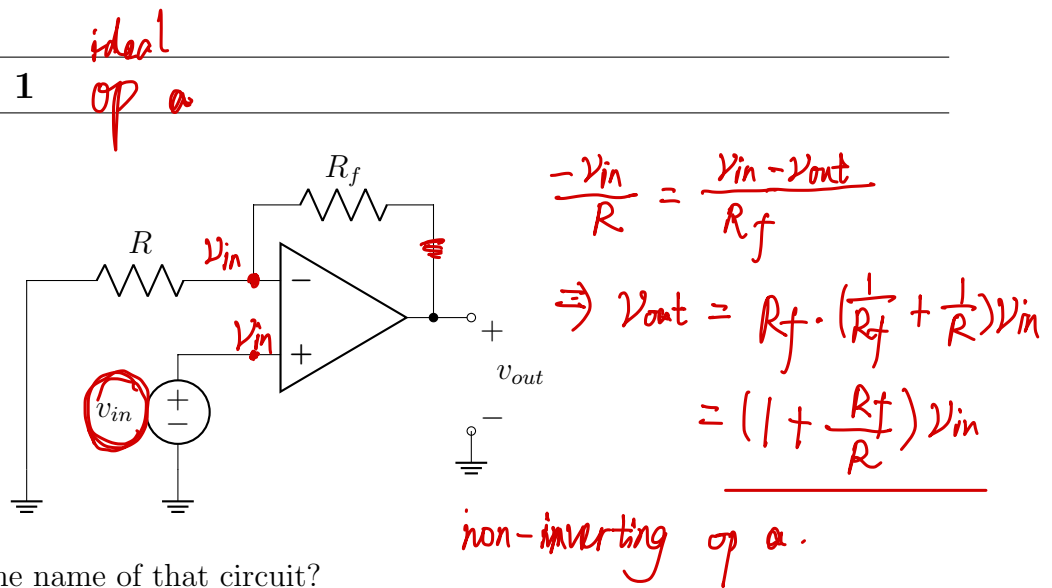


Exercises 09

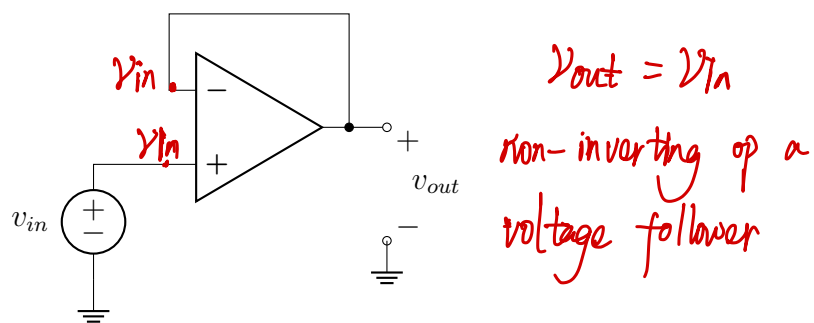
- Operational Amplifiers

Exercise 1 - Circuit 1

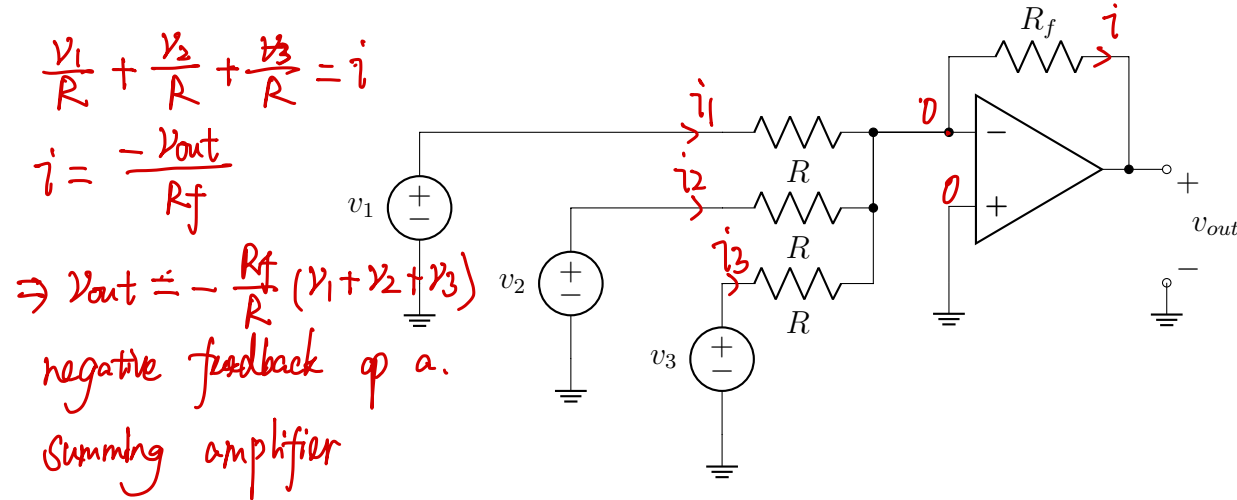


- Determine v_{out} . What is the name of that circuit?

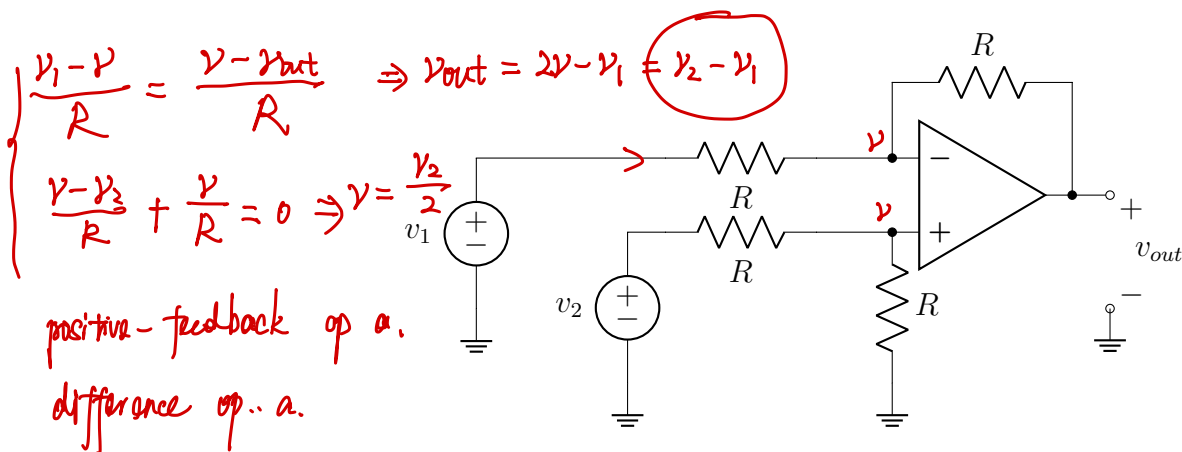
Exercise 2 - Circuit 2



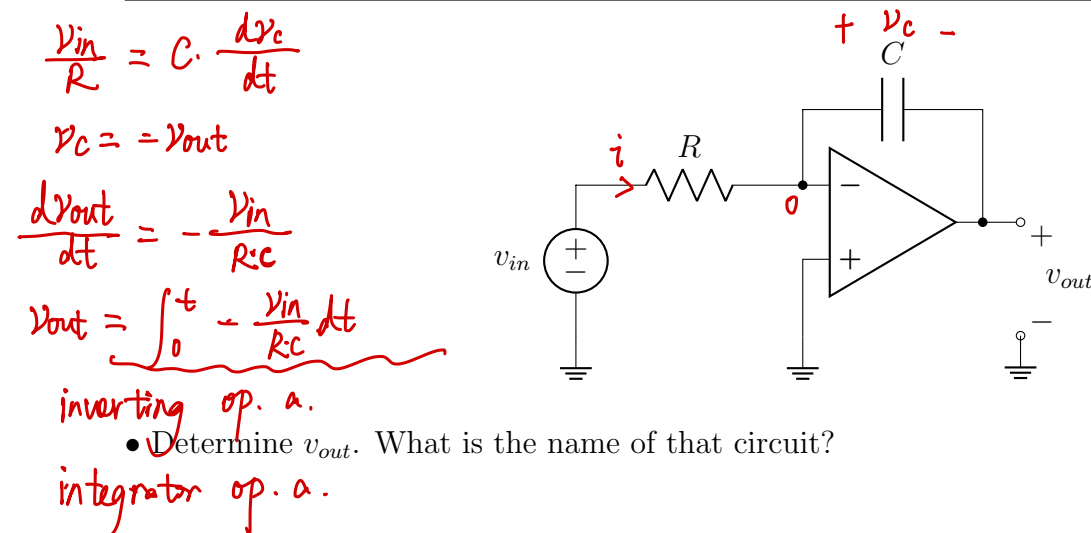
- Determine v_{out} . What is the name of that circuit?

Exercise 3 - Circuit 3


- Determine v_{out} . What is the name of that circuit?

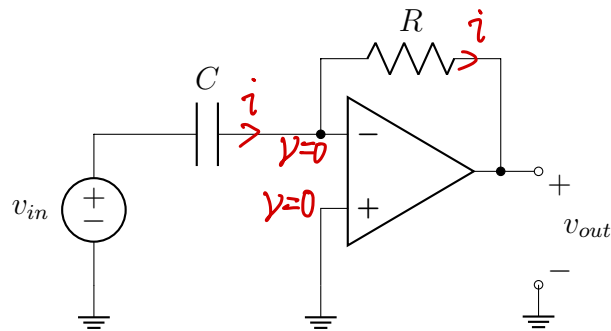
Exercise 4 - Circuit 4


- Determine v_{out} . What is the name of that circuit?

Exercise 5 - Circuit 5


- Determine v_{out} . What is the name of that circuit?

Exercise 6 - Circuit 6



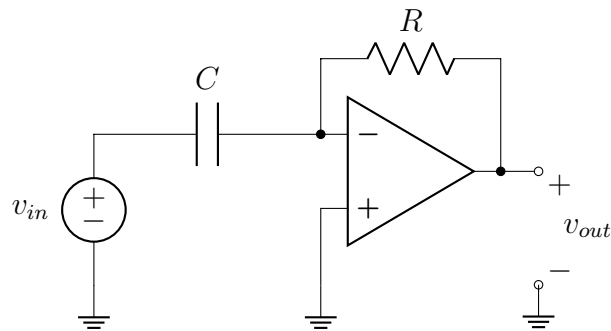
- Determine v_{out} . What is the name of that circuit?

$$C \cdot \frac{dv_{in}}{dt} = \frac{0 - v_{out}}{R}$$

$$v_{out} = -\frac{R}{C} \cdot \frac{dv_{in}}{dt}$$

negative feedback op. a.
differential amplifier.

Exercise 6 - Circuit 6



- Determine v_{out} . What is the name of that circuit?