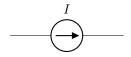
# **Current Source**



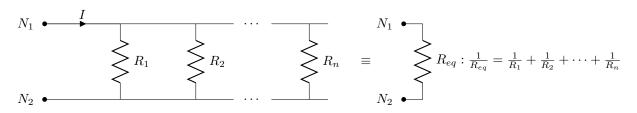
Fixed current, I, in that branch.

# Resistor and Capacitor Networks

### Resistors in Series

$$N_1$$
  $R_1$   $R_2$   $\cdots$   $N_2$   $R_n$   $N_2$   $R_{eq} = R_1 + R_2 + \cdots + R_n$   $N_2$ 

#### Resistors in Parallel



For two resistors in parallel

$$R_{eq} = \frac{R_1 R_2}{R_1 + R_2}$$

# Capacitors in Series

# Capacitors in Parallel

$$N_1$$
 $C_1$ 
 $C_2$ 
 $C_n$ 
 $C_{eq} = C_1 + C_2 + \cdots + C_n$ 
 $C_{eq} = C_1 + C_2 + \cdots + C_n$