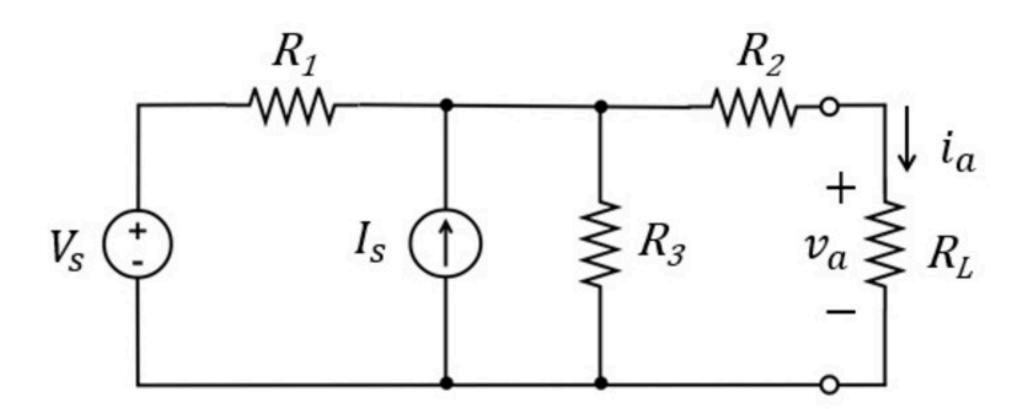
## Circuit theorems 010

## Unlimited Attempts.

## Find (and think about how to minimize your calculations)

- 1. The value of  $v_a = v_{a1}$  when  $R_L = 12 \Omega$
- 2. The value of  $R_L = R_{L2}$  that results in  $v_a$  = 4 V
- 3. The value of  $R_L = R_{L3}$  that results in  $i_a = 1$  A



## Given Variables:

Vs : 12 V Is : 1 A R1 : 6 ohm

R2:8 ohm R3:12 ohm

Calculate the following:

va1 (V):

RL2 (ohm):

RL3 (ohm):