## Circuit theorems 004

## Unlimited Attempts.

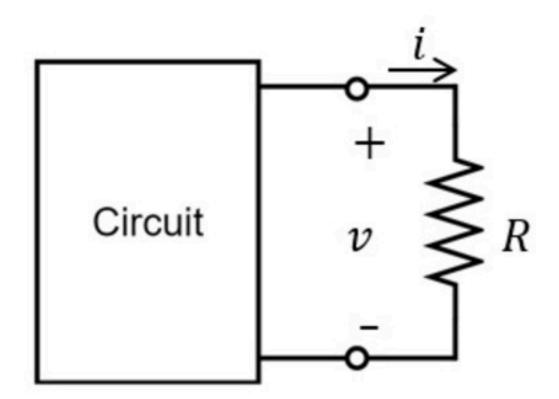
The box contains a linear circuit.

When  $R = R_1$ , we measure  $i = I_1$ .

When  $R = R_2$ , we measure  $i = I_2$ .

What value of  $R = R_3$  results in  $i = I_3$ ?

What is the maximum value of  $i = i_{max}$  that can be achieved (assuming of  $R \ge 0$ )?



## Given Variables:

R1:1 ohm

R2:3 ohm

I1:10 A

12:6A

13:2A

Calculate the following:

R3 (ohm):

imax (A):