

# RC Circuits Practice Problems

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## 0.1 Problem 1

A  $1500\ \Omega$  resistor and a  $25\ \mu\text{F}$  capacitor are connected to form a circuit. The capacitor has been previously charged to 35 Volts. How long does it take for the capacitor's voltage to drop to 15 V?

## 0.2 Problem 2

A  $1500\ \mu\text{F}$  capacitor is charged through a  $25\ \text{k}\Omega$  resistor by a 12 V battery. How much time will pass before the capacitor is charged to 8 V?