1 • Series
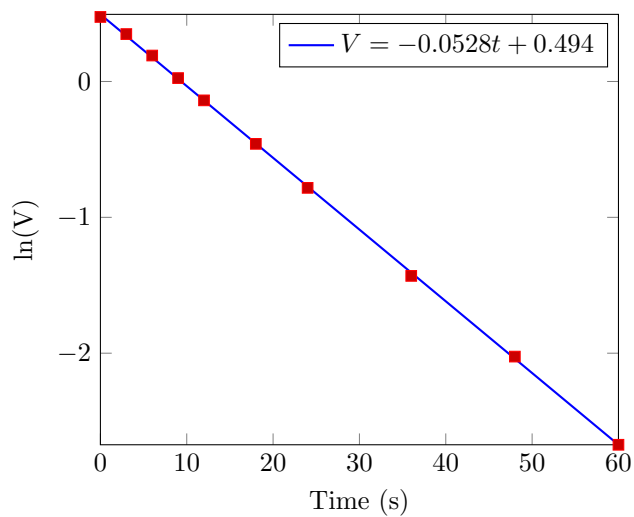

Figure 1: The total capacitance based on the slope is $86.1\mu F$, which is close to the theoretical value of $76.7\mu F$ for calculated for capacitors in series.

2 • Parallel

Figure 2: The total capacitance based on the slope is $456\mu F$, which is close to the theoretical value of $430\mu F$ for calculated for capacitors in parallel.