

---

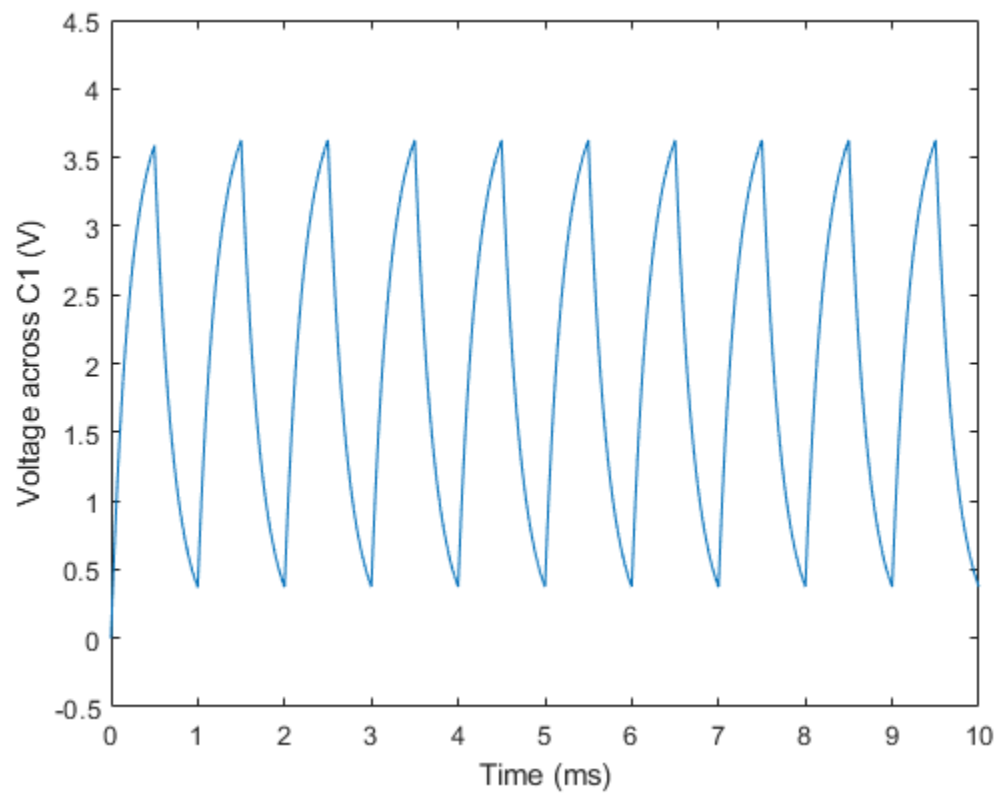
```
%%Question 1a: Example where capacitor doesn't fully saturate
```

```
t = 0:1e-4:10;  
x = 2 * square(2*pi*1*t) + 2;  
data = sim_rc(x,0.022*10^-6)  
figure  
plot(t,data.Vout)  
ylabel('Voltage across C1 (V)')  
xlabel('Time (ms)')  
axis([0,10, -0.5,4.5])
```

```
data =
```

```
struct with fields:
```

```
    R: 10000  
    C: 2.2e-08  
  Vout: [1x100001 double]
```



*Published with MATLAB® R2018a*