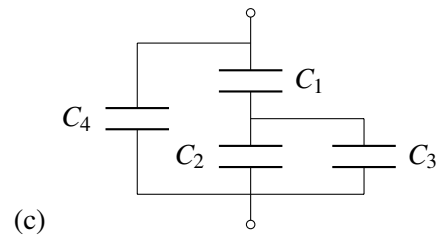
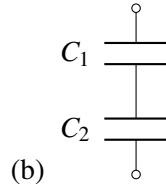
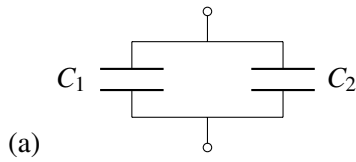


**1. Derive Series and Parallel Caps!**

Derive  $C_{eff}$  for the following diagrams.



**2. Voltages across Capacitors**

For the circuits given below, calculate the voltage across the capacitors after a very long time.  $R_1 = 1k\Omega$ ,  $R_2 = 2k\Omega$ ,  $R_3 = 3k\Omega$ ,  $R_4 = 4k\Omega$ .

